SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19698	50066	A	19813	160	1002	KRLGSSAISMSKYKLIMLR\HGE GAWNKENRFCSWVDQ\KLNSE GMEEARNCGKQLKALNFEFDL VFTSVLNRAIPTARL\IL\EELGQ EWVPVESSWRLNERH\YGAL\I GLNREQ\MA\LNHGE\EQVRL\W RRSYNVTP\PPIEE\SHPY\YQEIY NRPGGIKVCDVP\LDQLPRSES\ LKDVL\ERFLPYW\NERIAPEV\L RG\KTILISAHGK*AVGALLKHL GRYPSGLKTSINIYSFLLGVPILL \ELD\ENLRAVGPH\QFLGDQEAI QAAIKKVEDQGKVKQAKK
19699	50067	A	19814	200	1155	NHYISLFQYSQDTCKLLFRNQM TISQIFLCIFSGVLMVFFLIITTSQ VSFTNFFTGLKIFFLVIKFWVSE FLHHQTGTYIHIYLLFISMKSFF LYASPLTFMILSHFQASLSSIFGF CSSLFRQSSFFSNILFF*VYTQSY REFRTYYETIPCQFDITFVIFKM CCILILC\FDLLNRRNGSIIQKFG IYGLVKIFIF*IFTNIHLLQ*FFQV VFILQFFNIVKKSFLQPAGSKR* KFFSKVRFFSFL*F*KWEARSSA SKLFLLIY**VYR/IFSFLLVFPV V/CPVGWYLLFFFFLYLFFLFLN LSKNSFYSQWYWFKR
19700	50068	A	19815	1	168	RPWLHLHGRPGPWPAETPPPQD PEQAPPPGRAGPAGEAEGLSCV /P*APSRRPRTM
19701	50069	A	19816	1	531	PVGQGARQDDSSSSASPSVRAT SQGGHLMSDLFNKLVMRRKGI SGKGPGAGEGPGGAFVRVSDSI PPLPPPQQPQAEEDEDDWES*G AP*HLPPPDPDLGRCSDMDTAR TSCSDLLPWEGVTEPAVCGDQL QGAEGWLEATQLGRGLVCLYF MGGRLHPACATVFLRGFQRKR HTNQ
19702	50070	B	19817	61	969	
19703	50071	A	19818	60	436	RGSREYLHTGCPRSGGCRSQCP GPPTQSPKVRPPQRGAPRLRGG DFPPSRLLDTVSFPSPA*AAFPP CPVPHLPAPVQGAPREVVDPSG GWATLLESIRRAGGIGKAKLRS MKERKLEKKKQKEQ
19704	50072	B	19819	575	1666	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19705	50073	A	19820	515	1110	MFHPTCLTCPAFANRPHVHCRP GAPAFAPSAPGTIPELPTFHTEV SPSHSRQTLQDGVT*TAPPPPPP PPPPPPAPEVLGQLQPPLPTLQP RPLLGQGAREGRTAAAA/PSPS/ GPGSSQGSGRPLRWLGHSARV HPPSWGHRQGLAAQHERKRNV EKKKQKEQEQVRATSQGGHLM SDLFNKLVMRRKGHLWEKDPG AW
19706	50074	A	19821	1	191	MQK*ITAWAPAPMKIKIIASPER KYSVWIGGSIWPQLST/FQQMW ISKQEYDESGPSIVHRKCF
19707	50075	C	19822	791	970	
19708	50076	A	19823	13	1260	INPPPLSRRCQLSHSVLPPLRRR VSLPVAMEEEIAALVIDNGSGM CKAGFAGDDAPRAVFPSIVGRP RHQGVMVG\MGQK\DSYVGDE AQSKRGILTLKYPIEHGIVTNW DDMEK\IWHHTFYNELRVAPEE HPVLLTEAPLNPKANREKMTQ\ IMFETFNTPAMY\VA\IQAVLSL* \ASGRTTGIVMDSG\DGVTHTV\ PILRGLPHCSTPFLRLGPGLARD LTDYLMKILT\ERGYSFTTHGPS GKTFRNIKGEACATSPLDFEQ\E MGT\AASSSSLEKSYELPDGQVI TIGNERFRCPEALFQPSFLGMES CGIHETTFNSIMKCDVDIRKDL YANT\ALSGGTTMDPG\IADRM QK\EI\TALAAPAP*KIR\IIAPPER K\YSVWIGGSILASLSTFQQMWI SKQEYDESGPSI\VHRKCF
19709	50077	A	19824	93	534	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19710	50078	A	19825	1	1462	WEVSAQPSPAVPRRAPLRGLSA TRSAAGTMREIVHIQ\AGQCGN QIGAKFWEVISDEH\GIDPTGSY HGDSDLQLERINVYYNEAAGN KYVPRAILVDLEPGS\MDSVRS GPFGQIFRPDNFVFGQSGAGNN WAKGHYTEGAELVDSVL\DVV RKESESCDCLQG\FQLTHSLGG RHGVPGWGTLLHQQGSGEEYP DRIHETPFSVH/VPSPKVFKTRL LEPLQRHTSRFHHLVENT\VKP YSIDNEALY\YICLPTAES*PTPT YG\ALNPPGCSATMSGVTT\CLR FP/GGQLNADLRKLA\VNMVPF PRLHFFMPGFAPLTSRGSQQYR ALTVPE\LTQQMFDSKKMIA/AP CDPPPTGR\YLTVAAIFRGRMFH GRRWDEADGSNVAGTRNRQVI SWEWVP\NNVKTA\VC\DIPPPG AWKMS\ATFIGNQPRPSRRLFK RIYE\QF\TAMFPAQGPSLHWLH GRRAMDGDGSSPEAREQHERP WCPEYQQYPGTPRPT
19711	50079	A	19826	2	180	
19712	50080	A	19827	28	185	
19713	50081	A	19828	179	307	
19714	50082	A	19829	438	663	
19715	50083	C	19830	99	335	
19716	50084	A	19831	1	320	AYADQL*LRRHKSSSSSSSSSSS SSSSSSSSPLAP*LGSGDLP*EIN PPSSCSLLREKDPPTTSGPQ\PTS PRNISPISNPDPTGNRTVQLTWQ PLPQPLELWPKAL
19717	50085	A	19832	578	753	LCTPTPFPLFWKTVRKYSSNNQ KGE*NTVLMEVCPRSPRTN*KD SQ*PFELLTKMTSQGSDISGDLP WEINPLSSCSLLHEKDPPTTSGP QTDQPKKHLTNFKSETKETHFI RGPKTPVLVTDWEGRLPLVFN HSRDASLIIHPRFRGVRPRRDAC LGPSPLAASPAFLEEGQVPQPLL SMSLTPSLLFWRRGKKPSTPSSP LAASPAFLEEGQVPQPHISVPRS LISTPQPLITLHPDPFPAFLEDSK EVLKQQPKGRIKHCADGGMSK EPKNQLKGLPVTKAGNIHGIND
19718	50086	A	19833	95	259	SHRPSQ*VLQLIKVAHPELFVPP SGFVVSLTSGMKLQTLTTREW MRILLIFWNG
19719	50087	A	19834	1	939	
19720	50088	A	19835	391	792	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19721	50089	A	19836	1	1317	
19722	50090	B	19837	1	1665	
19723	50091	A	19838	573	902	YSCLLILIRKITQNSVEVLGRRK FLGGGMEREWVMFL/EGCFKR D*GQRGNQFQIRVTAPNFMCV CVKRPPNRLCVSNKAVYFTWV QVGFQIFEKPEPIEEICKVCWRP
19724	50092	A	19839	1802	2229	GGGAEAEEELGPSSAWRGAAC PCPRKAGLVAKAEGPRQASLR GLTPLKRECIIREASLQ*LNTK/V KAAFPVRDRRWSFGFTDKTCLF CLGSEIGEVFLGLVGLRT*GRR WIFLMEQRAGGQGIDLPREVPR SKSGHQISLVSI
19725	50093	A	19840	19	4153	PPDPLPGLPCPPGGPPLPAFGGG WGGARGSWHWSSRACSRRRR LVHAPRAPLLPRAAAEKAKRP AGARQMGLKARRAAGAAGGG GDGGGGGGGAANPAGGDAAA AGDEERKVGLAPGDVEQVTLA LGAGADKDGTLLLEGGGRDEG QRRTPQGIGLLAKTPLSRPVKR NNAKYRRIQTLIYDALERPRGW ALLYH\ALVFLIVLG\CLILAVL\ TTFKEYETVSGDWLLLLETFAIF IFGAEFALRIWAAGCCCR
19726	50094	A	19841	355	640	ILDYVFSSSHLFQSKLLGRRGR ASHGTKL*AGPG\GGGEVIKGL* GGGAEAEEELGPSSAWQGAAC SFPRKAGLAAKGEGPRQASLH GLTPLKCG
19727	50095	C	19842	55	189	
19728	50096	B	19843	96	401	
19729	50097	C	19844	558	725	
19730	50098	C	19845	448	540	
19731	50099	C	19846	140	334	
19732	50100	A	19847	362	710	ILGGRKLRLEKSLGCAAQGGG AL/YEEWLELRNGCLCCS\VKD NGL*/RAIENLMQKKGKF\DYIL LETTGFADPGAVASMFWVDAE LGSDIYLDGIITIVDSKYGLKHL AEEKPDGLIQ
19733	50101	A	19848	181	543	
19734	50102	A	19849	1	594	
19735	50103	B	19850	29	746	
19736	50104	A	19851	45	362	EEQHSMLGSGFKAERLRVNLR LVINRLKLLE/KKDERARIRVEH IIREDYLVEAMEILELYCDLLLA RFGLIQSMKELDSGLAESVSTLI WAAPRLQSEVAELKIVA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19737	50105	A	19852	344	951	EEQHSMLGSGFKAEHLRVNLR LVINRLELL/EGKKKKKTELAQ KAGKEIADYLAAGKDERARIR VEHIIREDYFVEAMEILELYCDL LLARFGLIQSMKELDSGLAESV STLILAASRLQSEVEGFPNIYSS* IPSNSPIILNL*MAIKGCKNY/RL LHQIVVPGPSQKPLQNFLLDLR LPWTTLWPIFGLEGKIPLWERIK
19738	50106	A	19853	1	1077	
19739	50107	A	19854	1	1140	
19740	50108	A	19855	1	3426	
19741	50109	A	19856	1	942	
19742	50110	A	19857	342	1499	EEQHSMLGSGFKAERLRVNLR LVINRLKLLEKKKTELAQKARK EIADYLAAGKDERARIRVEHIIR EDYLVEAMEILELYCDL/LCLA RLG/LYSSY*KELDSGLA\ESVST LIW\AAPRLQSEVA\ELKIVADQ LCAKYSKEYGKLCRTNQIGTV NDRLMHK\LSVGTPP\QILVERY LIEIAKNYNVPYEPDSV\VMAE APPGVETDLIDGGFPDDVKKR\ GPWKKEGSGGFTAPVGGPDGT VPMPMPMPMPMPSANTPFSYP LPKGPSDFNGLPMGTYQAFPNI HPPQIPATSPIRIESVRWTFNCLI KEYS/IFLAQICLGPGPKARRPF AKFP\SRPADNF*QLLFLPELPSV PDTLPTASAGASTFRHLKDIDF DDLSRRFEGAGKRKT
19743	50111	A	19858	2	255	GCISTSRLGSMPTTTLRLLQKIS *RSYSSAPASCLISIVKSASD*RA RAPTRGSYGGPLLRLSSSSSLAS GRCVTSRASLRPRS
19744	50112	A	19859	1	276	
19745	50113	A	19860	3	151	GAVPAVRLGGPLHVHLPHAR*P SNLSALQFYQDGSLRWWQTVS *RAASRSPPTRPVTIKSVCTPILP GWLSSLVANCIVKSASD
19746	50114	A	19861	1	386	DCVIATDAEVLGAPVKGKRRG RGPKGDKASDPEAGVARGIDF HHVSAVLNFDLPPTPEAYIHRA GR**CDGPGICMVGTLRDLGCA GQSLRVGDASCTVFPCRTARAN NPGIVLTFVLPTEQFHLCKI
19747	50115	B	19862	26	186	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19748	50116	A	19863	2	1839	ARGQRVRAALLSSAMEDSEAL GFEHMGLDPRLLQAVTDLGWS RPTLIQEKAIPLALEGKDL\LAR ARTGSGKTAAYAIPMLQLLLHR K\RQVRW*NRQ*EGLVLVPTKE L\ARQAQS\LIQQLATYCCSGMS ELANVSAC*KTQSLRELCLMEK PD\VVVGTPS\RILSHFAARQPET FVTPWSFLVVERSLTFFFPFGFE EELKKSSSGKAESLAPDFNKAF LMSATFNEDVQA\LKELILHNP\ VTLKLQESQLPGARPVTAVSGG L*DLREDKFLLLYALLKLFIDSG ASLWLFCSTL*EREFTGLRLFL WEQFQ/LSPTCVLNGELPLRSR VPHHL/QQFNQGFYGLCHRQL/ NAEVLGAPVQGQASGPRAQRG Q/VPLDPEAGVARGIDFHHCVC\ VLNF*SFPPTPEA\YIHRAGR**C DGPGICMDSTR*QPRA*S*PFVL PTEQFH/CRQD*GASQWREQGA P/SLLPYKFGMEEIEGFRYR*GV HPQDAMRSVTKQAIREARL\SLI KEELLHSEKLK\TYFGRQPLGD LQA\LRHGPYLCTPQLVEAPTW GHVPDLPGSSCFSVALGAPFTK KREEACLPSCRKAQESKVPRTP LRSFKHKGKKFRPDSQALREVV
19749	50117	A	19864	3	378	TTTKFAGRRPKVTVLGQP/KAA PSVTLFPPSSEELQANKATLVCL ISDFYPGAVTVAWKRGSSPVKA GVETTTPSKQSNNKYAASSYLS LTPEQWKSHKSYSCQVTHEGST VEKTVAPTEYLLRVY
19750	50118	A	19865	1	546	MAWTPLLLLLLSHCTGSLSQPV LTQPPSSSASPGESARLTCTLPS DINVGSYNIYWYQQKPGSPPRY LLYYYSDSDKGQGSGVPSRFSG SKDASANTGILLISGLQSEDEAD YY/CGCFTVFWSTF*VLVPEHQ QSWLPLWTPGVVSLLV/CLVPS FVPPPLTKVPSSLSSPVKESAILA VDIH

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19751	50119	A	19866	2	838	RVRVSTMAWTPLLLLLLSHCT GSLSQPVLTQPPSSSASPGESAR LTCTLPSDINVGIYNIYWYQQK SGSPPRYLLYYYSDSYKGLGSG \VPSRFSGSKDASANTGILLISGL QSDDEG\DYYCATWDSSLTGQ VFGGGD/TKLTRP*GQPKACPP GVTLVPNPPS/SRSFQAQQGPQL VMSS*SDFLTPGSPLNSCPWK\A DSQPPFKAG\VETTHTPPKQSNN QVRGPAGYLSLTA\EQWEVPTE SYSCQ\VTH*RGAPWEKTVGPY RMFHRFLNPSPPHHGMT
19752	50120	A	19867	1338	1854	NSETREHNHRYVPQRETSGGTD GWKSKQPE*L*RRQLVQSWAK S*NQPKLPSSPH*ELPWVTPSA RNFRSGPYSPPPPPPPQPLPSSHL SSLHFYSPFVSYTSFDLYSSSYH SYLMDEDTVEPKELRSSQKVIG HSFTGFQPTLSANPYDRGDGKII ELLPRKAQTFPVVRT
19753	50121	A	19868	1	500	GSTYSELLSGTACVVTALHLAQ QRRHHLLGGLASRHDAPEQLA VGAPVQPRPLPAPAGAQALVG HAHVVVEGGP/PGSGGPGEGAI ARGPGAAAAAGAGPGAPRRRR LQASAGPCSRSSEPGRRSAPRA APPAPSAGPHVAFPSRRPAAGS PPRSRPPPPPGIPTGGR
19754	50122	A	19869	20	507	TRQVYSGGVRTPPCQSHPHRPR SSCRPPPPPRRPRSSRRRRGLSP RRAPAHWSSRSTRPAWWAPSR RHAPRPPWSPGPASG*CSVYFPI LPLALFPLPVHHGGVHVCGREG VGLVQEGDSHSGEWS*RSAWG STSLRAAPRSGGRPPAGGGWR YTRPPSRRC

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19755	50123	A	19870	236	1191	GSGRIPGRAGLEGPGPAFQKSR LSPASGSAGPRGASPSAVPPGR/ RPGVPAFPASNPPPVAAVPGPW VTCWGKGLQGEGKAPRAPHA GTPQR\SPGSARPTGLSPPA*PSR *RARRPSPETP\PGHGRAGPPPP DGAVQRQGPGCRAPSASRPPGS ARARRRRWPAARPPGCPARPG PRGGRPRRRPSPPAAGRARRRA PRTPAARSR*VCPRGRRSAAPP RGHGTAPCAAAAPPPPRGLGRP ADAPEQ/PRCRCARPAPPLPAPA GAQALVGHAHLLLKAALGHDF TFLWATIHEVIPKMRWGQSQC QRGGPSSHTPDLSA
19756	50124	A	19871	24	286	LRGQKVLLLGDRARLSQKKKE RKREREREREGHGRNGR/RRNG QGRGPEGQR*NERTGQERTGH GREGRKEGRKEGRKEGRNERE
19757	50125	A	19872	43	373	PRFTDENLEMCTVIQSVQCYHR SWH/HSSPPEPAPHHQSPPAHSP VLCWFRRLGGGEDWAPSSGGR AVWRSHCSCFCCCSSSCCSCSQ SGKRTAAAPWPTTSPAPSRSCC A
19758	50126	A	19873	3387	4083	AGRSALPVDAVQVQAEGLWPP AVLLHHHHHPHHHYHHYHHH HHHHHHP*HHHPHHHHHHHRN HHHHHHHHLHHHHHHHHHHL YHSH\YHHH/HHHHDHHHYHH FHDHYHHHHH/HYSHH/HHPH/ HHHH*RHDHY/AHHHHHQ\HH CHHCHHPHRHGHYHYHHHGT VAFGALEDSAVARTGLPLPEGV LCGAPTAAASAAVPPPAVPAPN QGRGPQLHPGQQLRPLLHAHA ALQWPTTHL
19759	50127	A	19874	3	411	
19760	50128	A	19875	1	1095	
19761	50129	A	19876	1	471	
19762	50130	A	19877	1	554	FRGRLASPFRPVPMEALGKLKQ FDAYPKTLEDFRVKTCGGATV TIVSGLLMLLLFLSELQYYLTTE /VKGRGLMRGRGLAF*E*DL*G WEWGRRGLGLSLTEVALPQVH PELYVDKSRGDKLKINIDVLFP HMPCAYLSIDAMDVAGEQQLD VEHNLFKQRLDKDGIPVSSEAE RHVLSFVVSAD
19763	50131	B	19878	1116	1274	
19764	50132	A	19879	28	389	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19765	50133	A	19880	75	448	
19766	50134	A	19881	276	830	QEDSCPLHPLSGIPFRRFQPTPE EAGAVVPGEGPTHDQGPSSALT RR*ACQGPLHLARTTAEPGHAH PWH*RWQRYMGKLGRDLEKV CPVWSSVACSSPGLSWAGKTE AKTSLEGGNSASASASSWAWG RSSLAPVRDILGSREFSGLLEGT FVLSVTLSADFGIGTWVDLGKV TGSSSKEGRL
19767	50135	A	19882	223	1269	APVTKRKEVFAKDSKGSALDA GRDPKRPALPETLCESGWASNT APTAPPQPGWCLCGKDFKSSCQ TPGREKERRLATMHGSCSFLML LLPLLLLLVATTGPVGALTDEE KRLMVELHNLYRAQVSPPASD MLHMRWDEELAAFAKAYARQ CVWGHNKERGRRGENLFAITD EGMDVPLAMEEWHHEA*/DTT TSAP/HSCSPGQMCGRYTQVVW AKTERIGCGSH\SCEKLQGVEET NIELLVCNYEPPGNVKGKRPYQ EGTPGSQCPSGYHCKNSLCEPI GSPEDAQDLPYLVTEAPSFRAT EASDSMKMGAEGPDKPSVVSG LNSGPGHVWGPLLGLLLLPPLV LAGIF
19768	50136	A	19883	2	281	FVPALGSSAVMLSRSRCVSRAF SRSLSAFQ/KGVSLCQGPGYPNS RKVVINNSVFSVRFFRTTAVCK DDLVTVKTPAFAESVTEGDVR WEKGKI

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19769	50137	A	19884	1	1320	MPAVTILKPNLKQIILGLKAAE VSSLPPSIVLDAKEITTQITRQIL KGNCPLGRHSLPGVSLCQGPGY PNSRKVVINNSVFSVRFFRTTTV CKYDLVTVKTPAFAEPVTEGD VRWEKAVGDTVAEDEVVCEIE TDKTLVQVPSPANGMIEALFVP DGGKVEGGTPLFTLRKTGAAP AKAKPAEAPAAAAPKAEPIAA AVPPRAAPIPT/QMPPVPSPSQPP SSKPVSAEAQNTCA\MLTIFNEI DVSNIQKMRARHKEAFLKKHN LKLGFMSASVKASAFALQEQP VVNAVIDDITKEVVYRDYIDIS VAVATPQGLVVPVIRNVEAMN YADIEQTITELGEKARKNEFAIE DMDGGTFTISNGGVFGSLF/GTP IINPP\SAILGMHGIFDKPVAIGG KVEVQPMMYVALTYDHRLIDG REAVTFLRKIKAAVEDPRVLLF
19770	50138	A	19885	1	1559	MESEALVVCINHCMAVNYGMI YQRGSSNMNILSLSLKHPEKTGI SPTANHGISDLQEGEAACGSLR TPLVGRRVLRPAPLPVVVRPYI RCPPALGSSAVMLSRSRCVSRA FSRSLSAFQKGNCPLGRRSLPED DLVTVKTPAFAESVTEGDVRW EKAVGDTVAEDEVVCEIETDKT SVQVPSPANGVIEALLVPDGGK VEGGTPLFTLRKTGAAPAKAKP AEAPAAAAPKAEPTAAAVPPPA APIPTQMPPVPSPSQPPSGKPVS AVKPTVAPPLAEPGAGKGLRSE HREKMNR\MRQRIAQRLKEAQ NTCAMLTTFNEIDMSNIQEMRA RHKEAFL\RKLKLKLRLMSAIV EGSA\FALQE\KPLLMEGIDDTT KEVVYRDYIDISVAVAHPRGLV VPVIRNVEAMNFADIERTITELG EKARKNELAIEDMDGGTFTISN GGVFGSLFGTPIINPPQSAILGM HGIFDRPVAIGGKVEVRPMMY VALTYDHRLIDGREAVTFLRKI KAAVEDPRVLLLDL
19771	50139	B	19886	239	3045	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19772	50140	A	19887	3	809	RGRFLPPCHPAALPPCRPAALLP VVAARGAPSPPPPHVLPCVGSG LGYNMLGMIKNSLFGSVETWP WKVLSKGDKEEVAYEERACEG G\KFATVEVTDKPV\DEALTGK QLPKV\AKYAGGTNDKG\IGMG MTVPISFA\VFPN*RWLSCRKKL KVWFPDFQTNFQSDPPAPS\DKS VKI\EEREGIHCLIPCQFGGYAK\ EADYV\AQATR\LRAALGG\PAT YRGDIYFCTGYDPPMK\PYGRR NEI\WLFEDMSDPTEPRTYWEV CLCVSFLRG
19773	50141	C	19888	164	208	
19774	50142	A	19889	1542	1929	NLVPSLGSGDLPWEINP/LSSCS LLHEKDPPTTSGPQTDQPKKHL TNFKSAARPT\SWGRGKYPSTPS PSPLAASPAFLGGKNPPIAYFHT PTSYLCAPIPYFCAPTPSLLFWR ARTTTPTPSLCLKSFL
19775	50143	A	19890	1	208	MPEPQRPGVPPEPPPPGACYAC RKSGHWA\RNARSPGFLLSRVP SPPGPSRTPSFG*LSQWKPTCTQ VK
19776	50144	A	19891	1	1662	
19777	50145	B	19892	1	915	
19778	50146	A	19893	183	569	
19779	50147	C	19894	71	344	
19780	50148	A	19895	147	446	
19781	50149	A	19896	167	373	
19782	50150	A	19897	142	363	
19783	50151	C	19898	52	174	
19784	50152	C	19899	228	260	
19785	50153	A	19900	1	753	
19786	50154	A	19901	1	1077	
19787	50155	A	19902	500	912	LGSGDFPWEINPLSSCSL/LREK DPRTTSGPQTDQPSKHLTNLKS ASTPPPYNPFITSPPHTRSGLQFR STSSPPAPAQQFTLKKVAEAKG IVKVNAPFSLSDLSQISVRLGSFI KYEKSSPVHGSFGSNPETLYSP
19788	50156	A	19903	1	861	
19789	50157	B	19904	174	222	
19790	50158	A	19905	1	756	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19791	50159	A	19906	1035	1852	NLVPSLGSGDLPWEINP/LSSCS LLHEKDPPTTSGPQTDQPKKHL TNFKSAARPT\SWGRGKYPSTPS PSPLAASPAFLGQRQVPLSWGR GRCPSTPSPSPSAASPAFLGQGQ RQVPLSWGRGRCPSTPSPSPSA ASPAFLGQGQRQVPLSWGRGR CPSTPSPSPSAASPAFLGQGQRQ VPLSWGRGRYPSTPSPSPSAASP AFLGQGQRQVPLSWGRGRCPS TPSPSPSAASPAFLGQRQVPLSW GRYPSTPSPSPSAASPTFLGQDL PLSWG
19792	50160	A	19907	1644	1981	LGSGDLPWEINPSSSCSLLREKD PPTTSGPQTDQPKKHLTNFKSA *KRTNTASYK/WHSQSRVPAPR DGLVAAPTESEVAFLPVPPHQG PPLGNLGPSTVTTSFRCWLLDP RS
19793	50161	A	19908	1011	1154	
19794	50162	A	19909	1043	1168	
19795	50163	A	19910	1328	1470	
19796	50164	B	19911	406	1191	
19797	50165	A	19912	2848	3140	SFYHLSSSHLVRLTVSFRD*PSP TCPAIYS*KGGWSQRHSQGACY TCRKSGHWA\RNARSPGFLLSH VPSVWDPTENRTVQLTWQPIPE PLELWPKAL
19798	50166	B	19913	1	941	
19799	50167	A	19914	656	1983	NLVPSLGSGDLPWEINP/LSSCS LLHEKDPPTTSGPQTDQPKKHL TNFKSEAKEICFIREPKTPAPVT DWEGSLPLVFNHCRDASLIIHS RFKGVRPRRDACLGPSPLAASPI FLGKGQRLKTDTARLPRKPPRP SRMPSFGVKHVNVTIDCLPEGA ATRGTARTSKPTTKSQKTLPST SPGHWTQSTPWASALRSSPWTE TAAPSETEETLNTGRPPELPARA TATWFSASHTLPALATRRVART QWLTADRQTWASISSVPWAQT ISEKKPGGSLWETRSSPPTTAGT EEAMNTTSLLAPAAEIMATPGS PSQASPTSGAFTHGTQTPSPTKA TAPRYPQTGNSILTFGRPFLPFA GDLFAEWPFTAGEEPVLVPRPH QVSKTRSPPSFHLTLKTVTVAL LGNGEECYVYLSVSELREIRTR LYSPDAGLNEEKMLTKLLLI
19800	50168	A	19915	117	432	
19801	50169	C	19916	122	289	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19802	50170	A	19917	1	516	
19803	50171	B	19918	212	3302	
19804	50172	C	19919	181	444	
19805	50173	A	19920	151	485	SPRGHYQLLLSGRALADRYRRI YTAALNDRDQGGGSAGHPAS/ RSENLENTVIIPDIKLHSNPSAFN IYCNVRHCVLEWQKKEISLAAA SKNSVQSGESDSDEEEESKEPPI
19806	50174	A	19921	1	3465	
19807	50175	A	19922	1	176	
19808	50176	A	19923	114	14211	AAPVAAPGALFMPVPDGSVAA AGLGLGLPAADSPGHYQLLLSG RALADRYRRIYTAALNDRDQG GGSAGHPASRNKKILNKKKLK RKQKSKSKVKTRSKSENLENTV IIPDIKLHSNPSAFNIYCNVRHC VLEWQKKEISLAAASKNSVQS GESDSDEEEESKEPPIKLPKIIEV GLCEVFELIKETRFSHPSLCLRS LQALLNVLQGQQPEVLQSEPPE VLESLFQLLLEITVRSTGMNDST GQSLTALSCACL
19809	50177	A	19924	375	1191	SQGIPELHYTPGPRGRWCGWW PIVEPRMGASQGCCVLGHLAQ QGGGASQAVRGANGVHAGCR GDPHPRSDHYPGGRPWLPGAS QDPAVAPGGHGHPSYLARLPC AAEPGTP/PAEPPRPSSLPGAAT APAGT*\PALADAPPRRVGGAG QPGRGHV*PKLVPGWQSQDSI* PSL/PSSPARHTLAASATP*APGS GARPAW*C*WAPALAPVIPVD AHSPP\GGAGHGPGH*GPRGSV LGLRLPAGCP\GPRQPHRPGQSG PQPSSPPGGALRSASR
19810	50178	A	19925	3	543	SDDQPEKPHFDSRSVIFELDSCN GSGKVCLVYKSGKPALAEDTEI WFLDRALYWHFLTDTFTAYYR LLITHLGLPQWQYAFT\SYGISP QAKGITKATCEWGEHIIPLGSM AINSISKLTQLTQSSMYSLPNAP TLADLEDDTHEGRKGTEGSQL KCEHQLPPPMSHVGGGQRESL ARKEK
19811	50179	A	19926	1	392	FLDRALYWHFLTDTFTAYY\RL LITHLGLPQWQYAFTSYGISPQ AKITYNIKMNRRKCVHWKLAV EPLQWELRSCVSAGMGTGPKQ KVSSMKPRSCSVCSRRQSNSMG TTVSQSFLSYGKNVLFFPVRCC

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19812	50180	A	19927	1	1081	RAMEEEASSPGLGCSKPHLEKL TLGITRILESSPGVTEVTIIEKPP AERHMISSWEQKNNCVMPEDV KNFYLMTNGFHMTWSVKLDE HIIPLGEALAINKHLKTDFSFTQ SSMLFTFLIAPTLGQTWEDDTH GSQWMIQPEKPHFGLFAVLIF* GWVS\CNGSG\KVCLV\YKSG\K PALAEGHWRFLFPGTELLYWH FLTDTFTAYYR\LLIT\HLGLPQ\ WAILPFTSYGISPQAKQW\FSM Y*TYSPYNTNLV/TQKETDSFCG IKLDPSKVF*GGKNKIVIPKKKG PVQPAGG\QKGPFRDPPVPSISSI FKSSSGLWGNPTREVSTPPSNSL PAPEWWFPCTDGPRGDLQFCV WTVGLFLVE
19813	50181	A	19928	1	2835	MDALMLALGALMLALGLGDP KSAQVSDPDGAEPGPGRATGT DPLVQIHWKLGISEALSIPGGRL YRDLWSLTPVCLHIPGIAHHGP FTLGRMDVVEVAGSWWAQER EDIIMKYEKGHRAGLPEDKGPK SFGSYNNNVDHLGIVHETELPP LTAREVKQIRREISRKSKWVKM LGEWDTYKNSRKLIDRAYQGIP MNIRGPMWSVLLNIEEIKLKNP GRYQVRSARAQPTGQAVSGAQ VSSWRERQDHPGELGVKI
19814	50182	A	19929	3	142	TISSIIRKARKP\QDLLNNYTPRS SPLRSSGRTRMYKGKNVRPGNS S
19815	50183	A	19930	904	1295	WALMNGSESRFFVSSSQGRSEL VPNS/NYAVDY*PLTAHAVSSG GTSPVLARLLREKLESL\LPLHL GQVAKYAGQLRGRVKQQFAT MGERRRFWEKLFVNDR/AGAV AGKQRSESHY*NDRTVNQRTA RPSR
19816	50184	B	19932	1	1050	
19817	50185	A	19933	303	384	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19818	50186	A	19934	375	1161	EALESAPEG/RR*GSGTKTLSPS P/PAGSWVCRIPMGRGCRHGAE R/P/PGSQESSPSNGHGKLAGPSP YLGRFKSSS*T*QSPQTPAQGVS AS*GLGAAPVLRLQGPVPP\SHC GKSRPDPC*PSPGSPDPPGERES QQESQ*WPPVGELCTDPTGNPE RGGRHLQ\SHAPSGGGLSGFPS DSFPCSCYYGSTPVARKKRFAK CRGYIYDFVYELLSLKPPSQGV AEMPPPAVGQQG\QAEPRGIPQ SPAGGRVFFQDFYSLCLENTS
19819	50187	B	19935	62	346	
19820	50188	B	19936	1	1629	
19821	50189	A	19937	1	1218	
19822	50190	C	19938	718	1053	
19823	50191	A	19939	54	212	
19824	50192	A	19940	122	451	
19825	50193	A	19941	329	398	FFSYFRPSGCILPL*ELPEARCP
19826	50194	A	19942	92	346	VGSSPSRL*SLRGQVLNKN*S/I QLGCLHIVGNPI*NS*DVPWAG WSED*GRRWISSRSSSKDRGPV S*RSPPVPGLQHQMSHASM
19827	50195	A	19943	284	374	LKNHKRSEYALPHLN**PSTTK EV*M/DRS/SALSDDITL*KSFSW LILAQKSPPLSTLQPPLLPAREQ TLFDCNSPLPTQIL*NGPTLISLR *LSQDEPGKGLSQGNVIT
19828	50196	A	19944	1	1674	MAPPLSPFADSLFGLSPPAPRDK GDTFYPWTQNSGARHGLGRQP SLGVSSLQGRLSDHSPTFQRCQ TTQGRLPWSFTLSGKSCFSEEG AIPTPSVAESFQSSFSTDPSDLSP PPQPAHRQAELSPNSSSASTPPP YNPPTTSPPHTRSGLQFSSATSS SPPAQQFPLREVAGAEGIVNAH VPFSLSDLSQISQHLGSFSSDPT KYIQEFRYLTLSYNLTWSDLNV ILTSTLSPDERERVFPVSQSHAD NRRLHEP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19829	50197	A	19945	1746	3501	ESDPSNSTTSMDRTLL/MSSIVP RLPSACRILPTGFTIPE*SCVHRT ASLIPPLPPGSRKYSPPLPLNSLI FLKN/SAYTAVPALQTDWATSP ISLHLRTSFNSPHLYPPEELIYFL DRSSKTSPDISHQQAAALLRTY LKNLSPYINSTPPIFGPLTTQTTI PVAAPLCISWQRPTGIPLGNLSP SRCSFTLHLRSPTTNINETIGAF QLHITDKPSINTDKLKNISSNYC LGRHLPCISLHPWLSSPCSSDSP PRPSSCLLIPSPENNSERLLVDT RRFLIHHENRTFPSTQLPHQSPL QPLTAAALAGSLGVWVQDTPF STPSHLFTLHLQFCLAQGLFFLC GSSTYMCLPANWTGTCTLVFL TPKIQFANGTEELPVPLMTPTQ QKRVIPLIPLMVGLGLSASTVA LGTGIAGISTSVMTFRSLSNDFS ASITDISQTLSVLQAQVDSLAA VVLQNRRGLDLLTAEKGGLCIF LNEECCFYLNQSGLVYDNIKKL KDRAQKLANQASNYAEPPWAL SNWMSWVLPIVSPLIPIFLLLLF GPCIFRLVSQFIQNRIQAITNHSI RQMFLLTSPQYHPLPQDLPSA
19830	50198	A	19946	1392	1676	GFCILHIVLEPWFSAPSAPLSTSL YWLF*LYILLNFFQSFQLLCLW FECPPVAQSNLIV*SLLLSARQS HSPSSFFPLLVRNCVPLEEERCS
19831	50199	B	19947	1	1500	
19832	50200	A	19948	107	691	TTMLLIQSLFGGLFTWTRMKFG AVARIGGHPLGDQSP\SSCSLLP EKDPPTTSGPQIDQPKKHLTDF KSGTPL*LYTHVSRVSDHAGTP ALVLHP\YGKSRFSGEGATQRQ YPIPQQALKGLMPAITRLLQHG LLKPINSPYHSPILPVLKPDKPY KLVQDL\PLSTKLFCLSTPWCQT HILFYPQYLPLQPIILF
19833	50201	B	19949	1	2628	
19834	50202	B	19950	1	585	
19835	50203	B	19951	178	462	
19836	50204	C	19952	1	825	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19837	50205	A	19953	644	1795	RPSKSQTMLNSLSTALIISKIYFL PHT*HIYFLLPGSFCYTHSLLSLP QLPLFL/CLDLNAASHIIPDTTPD PHDCISLIHLTFTFPQISFFPVSHP DHTWFIDGSSTRPN\TTHQQRQ AML*YLPHLSLRLPLCLPPLPLS KPN*LP*LKPINSPYNSPILPVQK PDKSYRLVQDLRLINQIVLPIHP VVPNPYTLLSSIPSSTTHYSMLD LKDAFFTIPLHPSSQPLFAFTWT DPDTHQSQQLTWAVLPQGFRD SPHYFSQALSHDLLSFHPSASHL IQYIDDLLLCSPSFESSQQDTLL LLQCLFSKGYRVSPSKAQISSPS VTYLGIILHKNTHALPADRWPS CLRAAAAALILVEALKITNYA QLTLYSSHNFQNLFSSSHLTHIL SAPRLLLLYSLFVESPTITIVPGL DLNAASHIIPDTTPDPHDCISLIH LTFTFPQISFFPVSHPDHTWFID GSSTRPNHHSPAKAGYAIVSST SIIEATALPPSTTSQQAELVTLT QALTLAKGLRINIYTDSKYAFHI LQHHAVIWAERGFLTTQGSSIIN ASLIKTLLKTTLLPKEAGVIHCK GHQKASDPIALGNAYADKVAR QAASSPTSVPHSQFFSFASVTPT YSPTETSTYQSLPTQGKWFLDQ GKYLLPASQAHSILSSFHNLFH VGYKPLDRLLEPLISFPSWKSIL KEITSQCSICYSTTPQGLFRPPPF PTHQARGFAPAQDWQIDFTHM
19838	50206	A	19954	52	641	RPSKSQTMLNSLSTALIISKIYFL PHT*HIYFLLPGSFCYTHSLLSLP QLPLFL/CLDLNAASHIIPDTTPD PHDCISLIHLTFTFPQISFFPVSHP DHTWFIDGSSTRPN\TTHQQRQ AML*YLPHLSLRLPLCLPPLPLS KPN*LP*LKPSLLQKDYASISILI LNMPFIFCSTMQSYGLKEVSSL HKGPPSLMPL
19839	50207	A	19955	3	380	TTPDPHDCISLIHLTFTPFPHISFF RVPHPYHIWFIDGSSTRPN\ATH QQRQAML*YLPHLSLRLLLCPP PLPLSKPN*LP*LKPSLLQKDYA SIFILTLNMPFISCTTMQEVSSLH KGPLSLIPL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19840	50208	A	19956	154	485	TFIRTHFLTQPQPCPRHQPSR*L SSSPPAG*TG/IFARLLIFSCLLQI LNHM/QHTLAGQSVLVKNLTP QTLQPRWTGPYLV1YSTPT/VRP PAGSSPLGSPFQSKAVSISQPA
19841	50209	A	19957	158	416	ISGTCSNLLGEEVLEERLAAAV QAFGSSRVLEMWLGFVSQWRQ VIVTQKCIAVWLLPLYYCTP*R QG*LIPVVGFEGQILIFEVFS
19842	50210	C	19958	1	1755	
19843	50211	A	19959	2	394	
19844	50212	A	19960	710	1093	KEPTQHSFSYTHSLLSLPQLPLF L/CPDFNPASHIIPDTTPDPHDC1 SLIHLTFTPFPHISFFPVSHPDHT WFTDGSSTRPN\ATHQQRQDM Q*YLPHLLLTLPLCPPPLPLSKP NQLP*LRPSLLQKG
19845	50213	C	19961	1	1287	
19846	50214	A	19962	1	1293	MEEPLGFKQTLVVAQQNPLWT SGGGGHSPSGSGHRGVCITTLP VPEGSSQKETPHVSEKLKEKNE SLPGNPENSSRSSERPPRRHSKA RDSDEENDPDDEDAVVNAVGC LGKNSGFLAPELQKYQKQIKDG TAGTPAISTTTTVEIRKSSVMTT GDHLLSGKKAQRPAPGHSSCPS TETEEEKGKRLLYWVVWQVA VNSASQLEAHNSENPVSLSCRI RERPGLWHGYRPSRSPLPHSLS GSYSLWALRTDTVCD
19847	50215	C	19963	1	846	
19848	50216	B	19964	377	1172	
19849	50217	A	19965	564	1163	FPKSIFFLPPDAYTFLFPWLLQL YSLFVESPTITHCSWPRLQSGLP HYSGYHT*PS*LYLSDPPDIHPIS AYFLLSCSSP*SRLIY*WQFHQA *SPHTSKGRLCYSTSH*PAS*NL SFPFHRGNVSSRK*LLSVPSAIL LLLRDYSGPLPSLHIKLRDLPPP RTGKSA\YSTCPESGN*NTSWSR *TLICQS
19850	50218	A	19966	1382	1778	PIGTNTECVVLFQPMETGHSSR VNMSGYK*PC/PPLFGVLSWQN CWRVYPFCLLFGGPLSVMDPE GSPSGC/SNSLGLGADSVTLSTG GVFQPNVRGLNCNGKIVMGRC PLEFVPIPATSPISRKKPERSTAF

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19851	50219	A	19967	239	737	RPSFKTPENSPTLVPTWTTLFYA LFFSYPHLPTSLIRPKYFNQIICF PDYSWSTATSHCCPSSQSK/CLL CV/SLTSPQYQPLPQDLPSA*SLP L*VPTPPLIPLEAALRNIAHSLSI PPPKNFRRSNTSTLFCFICLINIR RQECQASEPRPGHRIPCDLHVYI QMA
19852	50220	B	19968	1	1321	
19853	50221	A	19969	1	1069	
19854	50222	B	19970	758	6451	
19855	50223	A	19971	53	319	CSGSMPSSSSVSRPTSPFGSPLLS SPATSSSPKTPPTSATSGSSCPTT GL*MWTWSGFTGPVKAATWR WTSATYPRWSWRPRAPLCPP
19856	50224	A	19972	1427	2103	RPVHGHLHAVPVWRDSVRGLA PSSSPRVPGRDLIKQTPRLRARV VLSPFKTADAAHSHPGLTQPGR GRMKADISAATPGPFMCRVTPL ALGVSTEPSPARLVLNFVLFCF VLRRSLALSPRLEVLWLDLG\SL QPPPP\GFKQFSCLSLPSSW\DYR CMPPWAG\QFLEF*VEDGV*H\I GQADLELLTSGDPPASASQSAG ITGVSN\RAQPQVSECGHGVAL RRQ
19857	50225	A	19973	3	320	VRMVIIKKSENNRCWRKCGEIG MLLNCW*ECKLVQPVWKT/VD PAIPLLGIYPKDYISFYGKDTCT HMFIVALFTIAKTGNQPKCPSMI DWIKKMWHIYTMEYYAAI
19858	50226	A	19974	2	79	
19859	50227	A	19975	308	630	GREKAREQVDLTLFTIAKTWN QPKCPSVIDWIKKIW/HIYTMGY YAAIKKDEFVSFAGT\WMKL*T VSVEADPHIEGRFFRFKNYASK TPSLKLQRQSRPFQETSHPTGIE KRSPPNLQKATQPHIMSAKEYA FSRKMYGKTGRKKGEVKVRER KGKGAGRSDTIYNSKDLEPTQ MPISDRLDKENMDIYTMGYYA AIKKDEFVSFAGTMDEAVNQG YSSRARTRHWSMKKILLQLAR CLPKWPLSFVLESQGLGGVGS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19860	50228	A	19976	2	508	KTTMRYYLTPVRMAIIKKSENN RCWRGCGETRMLLHCWFECKL VQLLWKT\W*FLKDVELKIPFD PAIPLLGVYPKDYKSCYYKDTC TRMFIAALFTIAKTWNQPKCPS VIDWIKKMWHIYTMEYYAAIK KDEFVSFAGTWMKLETIILSKL SQGQKTKHRMFSLISGS
19861	50229	A	19977	1926	2448	DFIAVITTRKQLKTKYNAHHSK QAITKHFSPKISDLILCLKKKIM NRHFSKEDIYAAKKHMKKCSP SLAIREMQIKTTMRYHLTPVRM AIIKKSGNNRCRRGCGEIGTLLH CWWDCKLVQPLCKSMWRFLR DL\DPAIPLLGIYPKDYKSCCYK DTCTRMFIAALFTIAKTWNQP
19862	50230	B	19978	1	1899	
19863	50231	A	19979	1	2142	MIILIDAEKAFDKIQQPFMLKTL NKLGIDGTYLKITRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLFNIVLEVLAQAIRQEKEI KGIQLGKEEVKLSLFADDMILY LENPIVSAQKLLKLISNVSKVSG YKINVQKSQAFLYTNNRQTESQ IMSEFPFTIATKRIKYLGIQLTRD VKDLFKKYKPLLNKIKEDTNK WKNIACSWIGRINIMKMAFPR WELNNENTWTQEGEHHTLGPV VGWGKRGGIALVDIPNVNDKL MVLEVLARAIRQKKEIKGIQLG KEEVKLSLFADDMIVYLENSIV SAQNLKLISNFSKVSGYKINVQ KSQAFLYTNNRQTESQIMSEFP FTIATKRIKYLGIQLTRDVKDLF KENYKPLLKEIREDTNKWKNIP CSRIGRINIMKMAILPKVIYRFN DIPIKLPMTFFTELEKTTLKFIW NQKRACIAKTILSKKNIAGGITL PDFKLYYKATVTKTAWYWYQ NRDIDQWNRTEASEVTSHIYNH LIFYKPDKNKKWGNDSLFNKW CWENWLAICRKLKLDPFLTPYT KIHSRWIKDLNVRPKTIKTLEEN LGNTIQDIGMGKDFMTKTPKA MATKAKVDKWDVIKLKSFCTA KETTIRVSRQPTEWEKIFAIYPS DKGLISRIYKELKQIYRKK\TNN PIKKWAKNMNRHFSKEDIYAA NRQMKKCSSSLVIREMQIKTTM
19864	50232	A	19980	1	5127	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19865	50233	A	19981	209	3816	QGRPTFRFRKYREHHKDTPREE QLQDT*SSDSPKLK*RKKC*GQ PERKVKLPTKGSPSD*KRISRQ/ KTLQARRQSWFFEKINKIDRPQ ARLIKKKREKNQIDTIKNDKGD ITTDPTEIQITIREYYKHLYANK LENLEEMDKFLDTYTLPRLNQE EVESVNRPITGSEIEAITNSLPTK KSPGPDGFTAEFYQRYKEELVP FLLKLFQPIEKEGILPNSFYEASII LIPKPGRDTTKKGNFRPISLMNI DAKIL
19866	50234	A	19982	1	1698	MELKAKAQELREECRSLRSRC NQLEESVSVMEDEMNEMKREG KFREKRIKRNEQSLQEIWDYVK RPNLRLTGVHESDGENGTKLEN TLQDIIQENFPNLARQANIQIQEI QRTPQRYSSRRATPRHIIVRFTK VEMKEKMLRAAREKGWVTHK GKPIRLTVDLSAETLQARREWG PIFNILKEKNFQPRISYPAKLSFI SEGEIKSFTDKQMLTDFVTTRP ALQELLKEALNMERKNRDTHR LKIKGWRKIYQANGKQKKAGV AILVSDKTDFKPTKILKDKEGH YIIVKGLIQQEELTILNTYAPSTG APRFIKQVRSDLQRDLDSHTLII GDFNTPLSTLDRSTRQKVNKDT QELNSALHQADLIDIYRTLHPK STEYTFFSAPHHTYSKIDHIVGS KALLSKCKRTEIITNYLSDHSAI KLELRIKKLTQNHSTTWKLNNL LLNDYWVHNEMKAEIKMFFET NENKDTTYQNLWDTFKVVCTG KFIALNAHKRKQERSKIDTLTS QLKELEKQEQTHSKASRRQEIT KIRAELKEIETQKTL/QKINESRS WFFERINKIDRPL
19867	50235	A	19983	1	3450	
19868	50236	B	19984	1	2265	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19869	50237	A	19985	1	2526	MFFETNENEDTSYQNLRDTFKV VFRWKHALNAHKRKQERSKID TLTSKLKELEKQQQTNSKASRR HEITNIRAELKEIETQKTLQKIN ESVNWFFEKIIKIDRLLARLIKK KREKNQIDSIKNDIEDITTDPVE TQTTVREYFKHLYANKLENLEE MDKFLDTYILPSLSQEEVEPLN RPITGSEIEAIINSLPTKKSPGPD RFTAKFYQRITNTEKCLKELME/ PESQSSRTT*RMQKPQESMRST GRKGFSDGR*NE*NE*RGEWN QVGKHSAGYYPGELPQTSKAG QHSDSGNTENATKILLEKSNSK TYNCQIHQS*NEGKNVKGSQRE RNTNYHQRILQTPLRK*TRKS\K EMDKFLDTYTLPRLNEEEVESL NTPITGSEIVAIINSLPTKKSPGP DGFTAELYQRQTESQIMSELPF TIASKRIKYVGIRLIRDVKDLFK ENYKPLLSEIKEDTNKWKNIPC SWVGRINIVKMAILPKVIYRFN AIPIKLPMPFFTELEKTTLNFIW NQKRAHIANSILSQKNKAGGIT LPDFKLYYKATVTKTAWYWY QNREIDEWNTTEPSEIMPHIYN YLIFDKPEKNKQWEKDSLFNK WCWENWLAICRKLKLDPFLTP YTKINSRWIKDLNVRPKTIKTLE ENLGNTIQDIGIGDDFMSKTPK AMATKAKIDRWDLIKLKSFCT AKETTIRVNRQPTKWEKIFATY
19870	50238	A	19986	1	3723	
19871	50239	A	19987	1	1023	
19872	50240	B	19988	91	1596	
19873	50241	B	19989	1	3171	
19874	50242	A	19990	1	2952	MLLNQGRKLPRVFAEETLKFK GTSNKPQTLEQISTSHAQKEAT VMVPGSNQEIPSGAYAIRALGF KHKTGRLFEQTLNYLQEFLFTP QWHLECQQERTVHSPGKAAEA REPSVIDRHLIQESSNWHLVGA ALGQSFQRKEQAAIFAVLQPLL VIPRQTGSGVDLQKTPTDLQQR GLIVRRKTNKQKGIVHNSTTRE QNWTENEFDKLTEGGFKRWVI TNSSELKEHVLTQCKEDKNLEK SAIKLELRIKNLIQN
19875	50243	A	19991	1	1797	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19876	50244	A	19992	1	2367	MVKGSIQQEELTNLNMYAPNT GAPRFIKQVLSDLQRDLDSHTLI MGDFNTQLSTLDRSMRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYISDHS AIKLELRIKNLTQNCSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDTFKVVC RGKFIALNAHKRKQERSKTDTL TSQLKELEKQEQTHSKASRRQE ITKIRAELKEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDAIKNDKGDITTDPTEIQS TIREYYKHLYTNKLENLEEMD KFLDTYTLPRLNQEEVESLNRPI TGAEIVAII/NNLPTKKSPGPDGF TAEFYQRK\EGILPNSFYEASIILI PKPDRDTTKKENFRPISLMNID AKILNKILANRIQQHITKLIHHD QVGFIPGMQGWFNIRKSIRVIQ HINRTKDKNYMIISIDAEKAFD KIKQCFMLKTLNKLGIDGTYFK IIRAIYDKPTANIILNGQKLEAFP LKTGTREGCPLSPLLFNIVLEVL ARAIRQEKEIKGIQLGKEEVKLS LFADDMIVYLENPIVSAQNLLK LISNFSKVSGYKINVQKSQAFL YTNNRQTESQIMSELPFTIASKR IKYLGIQLTRDRKDLFKENYKP LLKEIKEDTNKWKNIPCSWVEK INIVKMAILPKVIYRFNAIPIKLP
19877	50245	A	19993	2	2910	WRKIYQANGK/QKKAGVAILVS DKTDFKPTKIKRDKEGHYIMVK GSIHQEELTILNIYAPNTGAPRFI KQVLSDLQRDLDSHTIIMGDFN TPLSTLDRSMRQKVNKDTQEF NSALHQADLIDIYRTLHPKSTE YTFFSAPYHTYSKIDHIVQSKAL LSKCKRSEIITNCLSDHSAIKLD LRIKKLTQNHSTTWKLNNLLLN NYWVHNEMKAEIKMFFETNEN KDTTYQNLWDTFKAVCRGIFIA LNAHKRKQETS
19878	50246	A	19994	1	4729	
19879	50247	A	19995	1	1566	
19880	50248	B	19996	1	2796	
19881	50249	B	19997	127	2479	
19882	50250	B	19998	1	2907	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19883	50251	A	19999	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRIKNLTQNRSTTWKLNNLL LNDYWVHNEMKAEIKMFFETN ENKDTTYQNLWDTFKAVCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQEQTHSKASRRQEITKIR AELKEIETQ
19884	50252	A	20000	1	2052	MGDFNTPLSTLDRSMRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQNRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDKTYQNLWDAFNAV CRGKFVALNAHKRKQEGSKID TLTSQLKELEKQEQTHSKASRR QEITKVRAELKEIETQKTLQKIN ESRS\ARLIKKKREKNQI/DAIKN DKRDITIDPTEIQTTIREYYKHL YANKLENLEEMDKFLDTYTLP RLNQEEVESLNRPITGSEIVAIIN SLPTKKSPGPEGFTAEFYQRYK EELVPFLLKLFQSTEKEGILPNS FYEASIILIPKPGRDTTKKENFRP ISLMNIDAKILNKILAKRIQQHI QKLIHHDQVGFIPGMQGWFNIC KSINVIQHINRTKDKNHMIISID AEKVFDKIQQRFMLKTLNKLV LEVLARAVRQEKKIKGIQLGKE ELKLSLFADDMIVYLENPIVSA QNLLKLISNFSKVSEYKINVQKS QAFLYTNNRQTESQIMSELPFTI ASKRIKYLGIQLTRDVKDLFKE NYKPLLKEIKEDVNKWKNIPCS WVGRINIVKMAILPKVIYRFNAI PIKLPMTSFTELEKTTFKFIWNH KGARIAKSILSQKNKAGGITLPD FKLYYKATVTKTAWY

2523

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19885	50253	A	20001	1	2314	MDKFLDTYTLPRLNQEEVESLN RSITGSEIVAILNSLPTKKSPGPD GFTAEFYQRYKEELVPFLLKLF QSIEKEGILPNSFYEASIILIPKPG RDTSKKENFRPIPLMNIDAKILN KILAKRIQQHIKKLIHHDQVGFI PGMQGWFNIRKSINVIQHTNRA KDKNHMIISIDAEKAFDKIQQLF MLKTLNKLGIDGMYLKIRRAIY DKPTANIILNGQKLEAFPLKTGT RQGCPLSPLLFNIVLEVLARAIR QEKEIKGIQLGKEEVKLSLFAD DMIVYLENPIVSAQNLLKLISNF SKVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTLASKRIKYLG IQLTRDVKDLFKENYKPLLNEI KEDTNKWKNIPCSWVGRINIVK MAILPKVIYRLNAIPIKLPMPFF TELEKTTLKFIWNQKRARVAKS ILSQKNKAGGITLPDFKLYYKAI VTKTAWYWYQNRDIDQWNRT EPSEITPHINNYLIFDKPDKNKQ WGKDSLFNKWCWENGLAICRK LKLDPFLTPYTKINSRWIKDLN VRPKTRKTLEENLGITIQDIGMG KDFMSKTPKAMATKDKIDKW DLIKLKSFCTAKETTIRVNRQPT KWEKIFATYSSDKGLISRIYNEL KQIYKKKTNNPIKKWAKDMNR HFSKEDIYAAKKHMKKCSSSLA IREMQIKTTMRYHLTPVRMAII KKSGNN\RLFTVAKTWIQPKCA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19886	50254	A	20002	1	2685	MGDFNTPLSTLDRSTRQKVNK DTQELNSAPHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKTDHIL GSKALLSECKRTEIITNYLSDDS AIKLELRIKNLTQNRSTTWKLN NLLLDDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFVALNAHKRKQGRSKIDT LTSQLKELEKQEQTHSKASRRQ EITKIRAELKEIETQKTVQKINES RSWFFERINKIDRQLARLIKKKR EKNLIDAIKNDKGDITTDPTEIQ TTIREYYKHLYANKLENLEEM DKFLDTYTLPRLNQEEVESLNR PITGSEIVAIINSLTTKKSPGPDG FTAEFYQRAIRQEKEIKGIQLGK EEVKLSLFADDMIVYLENPIVS AQKLISNFSKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDTNKWKNIPCSW VGRINIVKMAILPKVIYRFNAIPI KLPMTFFTELKKTTLNFIWNQK \RAHIAKS/VLSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN RDTDQWNRTEPSEIMPRIYNYL IFDKPEKNKQWGKDSLFNKWC WKNWLAICRKLKLDPFLTPYT KINSRWIKDLNIRPKTIKTLEEN LGITIQDIGMGKDFMSKTPKAM ATKAKIDKWDLIKLKSFCTAKE TTNRVNRQPTKWEKIFATYSSD

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19887	50255	A	20003	1	2502	MTELTGIQQPQIVLFEHKGHKL VQGSSSDAGKVNRIYQHYEAS DKFNYTTGLAWKTAPEQTGKT VRKQQIKLNVKKMESRSKMQE HSSSPPMEQSWRENDFDELREE AFRRSNYSELQEEIQTKGQEVK NFEKTLDEYITRITNTEKCLKEL MELKAKARELREECRSLRSRCD QLEERVSVMEDEMNEMKREG KFREKRIKRNEQSLQEKWDYV KTPNLRLIGVPESDGENGTKLE NTLQDIIQENLPNLVRQANIQIQ EIQRTPQRYSSRRATPRHIIVRFT KVEMKEKMLRAAREKEIQTTIR EYYKHLYANKLENLEEMDKFL DTYTLPRLNQEEVESLNRPITGS EIVAIINSLPTKKSP/GPVGFTAE FCQRK\EGILSISFCEASIILIPKL GRDTTKKENFRPISLMTIDTKIF NKILANQIQQHIKKLIHHDQVG FIPGMQGWFNICKSINVIQHINR TKDKNHMIISIDAEKAFDKIQQL FMLKTLNKLGIDGTYFKIIRAIY DKPTANIILNGQKLEAFPLKTGT RQGCPLSPLLFNIVLEVLAGAIR QEKEIKGVQLGKEEVKLSLFAD DMIVYLENHIVSAQNLLKLISNF SKVSGYKINVQKSLAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLNEIK EDTNKWKNIPCSWVGRINIVK MAILSKVIYRFNAIPINLPITVFT
19888	50256	B	20004	1	2115	
19889	50257	A	20005	1	2382	
19890	50258	A	20006	1	2742	
19891	50259	A	20007	1	2250	
19892	50260	A	20008	1	2982	
19893	50261	A	20009	1	4791	
19894	50262	A	20010	1	2499	
19895	50263	A	20011	1	3259	
19896	50264	A	20012	1	3654	
19897	50265	A	20013	1	2391	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19898	50266	A	20014	326	1158	LWICEVMVKQRSRILKICLQKQ WQKTLAMWLKPCMGTFLLQL C*LDIAWV/RAIAVHTASSNLVP SLLGLCMIDVVEGTAMDALNS MQNFLRGRPKTFKSLENAIEWS VKSGQIRNLESARVSMVGQVK QCEGITSPEGSKSIVEGIIEEEEE DEEGSESISKRKKEDDMETKKD HPYTWRIELAKTEKYWDGWFR GLSNLFLSCPIPKLLLLAGVDRL DKDLTIGQMQGKFQMQVLPQC GHAVHEDAPDKVAEAVATFLI RHRFAEPIGGFQCVFPGC
19899	50267	A	20015	1	2860	
19900	50268	A	20016	1	2956	
19901	50269	A	20017	1	3359	MNNSIKEKVKLSLTKWEMQTK PNNNTVDLKDAQEVNLTSTDY RKQHVMLPTEINSDDSLLKIGVI RLANWIKSQDPSVCCNQETHLT CRDTHRLKIKGWRKIYQANGK QKKAGVAILVSDKTDFKPTKIK RDKEGHYIMVKGSIQQEELTIL NTYAPNTGAPRFIKQVLSDLQR DLDSYTLIMGDFNTPLSTLDRS TRQKVNKDTQELNSALHQVDL IDIYRTLHPKSTEYTFFSAPHHT YSKIDHILGSKALLS
19902	50270	A	20018	3	3130	
19903	50271	B	20019	8	2398	
19904	50272	A	20020	3	3398	SNSHITILTLNVNGLNAPIKRHR LANWIK\SQDP\SVSCIQETHLTC RDTHRLKIKGWRKIYQANGKQ KKST\VAILVSDKTDFKPTKIKR DKEGHYIMVKG*IQ*EELTILNI YAPNTGAPRFIKQVLRDLQRDL DSHPIIMGDFNTPLSTLDRSMR QKVNKDIQDLNSALHQADLTDI YRTLHPKSTEYTFFSPPHHTYSK TDHIVGSKALVSKCKRTEIITNC LSDHSAIKLELRIKKLTQNRSTT WKLNNL
19905	50273	B	20021	483	2210	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19906	50274	A	20022	1	5316	MVKGSIHQEELTILNIYAPNTG APRFIKQVLSDLQRDLDFHTLI MGDFNTPLSTMDRSTRQKVNK DIQELNSALHQADLIDIYRTLHP KSTEYTFYSAPHHTYSKIDHILG SKALPSKCKRTDIITNYLSDHSA IKLELRIKNLTQNHSTTWKLNN LLLNDYWVHNEMKAEIKMFFE TNENKDTTYENLWDAFKAVCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTHSKASRRQEI TKIRAEQINKIDR
19907	50275	A	20023	2	2712	WRKIYQANGKQKKAGVAILVS DKTDFKPTKJKRDKEGHYIMVK GSIQQEELTILNIYAPNTGAPTFI QQVLSDLQRDLDSHTLIIGDFN TPLSTSDRSTRQKVNKDTQELN SALHQADLIDIYRTLHPKSTEYT FFSAPHHTYSKIDHILGSKALLS KCKRTEIITNYLSDHSAIKLELM IKNLTQNHSTIWKLNNLLLNDY WVHKEMKAEIKMFFETNENKD TTYQNLWDTFKAVCRGKFIAL NAHKRKQERSKIDTLTSQLKEL EKQEQTLSKASRRQEITKIRAEL KEIETQKTLQKINESRSRFFERIN KIDR*\TLARVIKKKGEKNQIDTI KNDKGDITTDPTEIQTTIRESYK HLYANKLENLEEMDKFLDTYT LPRLNQEEVESLNRPITGSEIVAI VNSLPTKKSPGPDGFTAEFYQR YKEELVPFLLKLLQSIEKEGILP HSFYEASIILIPKPGRDTTKK\EN FRPISLMNIDAKILNKILANQIQ QHIKKLIHHDQVGFIPGMQGWF NTCKSINVIQHINRTKDKNHMII SIDAEKAFDKIQQPFMLKTLNK LVLEVLARAIRQEKEIKGIQLGK EEVKLSLFADDMIVDLENPIVS AQNLLKLISNFSKVSGYKINVQ KSQAFLYNNNRQTESQIMSELA FTIASKRIKYLGIQLTRDVKDLF NENYKPLLNEIQEDTNKWKNIP CSWVGRINIVKMAILPKVIYRF

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19908	50276	A	20024	1	4461	MVASRSSRVGVFYGGQNSVDG VSRRSDGSLNELCLYRPPTGAY LAYDTLDVLPSGQFTVNTPPID VNGKSLLALLWEHTSLLTSMG GGRWAMQPLGQLGQLEHLGD RRDQVLDRSGRSRRLDAAQHL RHRPDRRPQGMVGVLTNQKEP RTRWIHSRILPEVQGGTGTVPSE TIPIDRKEGILPNLFDEASIILIPK RGRDTTKKENFRPISLMNIDAKI LNKILANRNQQHIKKLIHHDQV GFIPGMQGWFNICK
19909	50277	B	20025	1183	4247	
19910	50278	A	20026	1	2671	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDINRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQSRSTPWKLN NLLLNDYWVHNEMKAEIKMFF ETNKNKDTTYQNLWDAFKAV CRGKFIALNAYKRKQERSKIDT LTSQLKELEKQEQTHSKASRRQ EITKIRAELKEIETQKTLQKINES RSWFFERINKIDRPLARLIKKKR EKNQIDTIKNDKGDITTDPTEIQ TTIREYYKHLYANKLENLEEM DTFLDTYTLPRLNQEEVESLNR PITGSEIVAIINSLPTKKSPGPDG FTAEFY/PESYL*QTHSQYHTEW AKTGSIPFENWHKTGMPSLTAP IQHSVGSSGQGNQAGEGNKGY SIRKRGSQIVPVCR*HDCLSRKP HRLSPKSP*ADKQLQQSLRIQN QCTKITSILIHQKQTNREPTHE* TPIHNCFKENKIPRNPTYKGCEG PLQGELQTTAQRNKRGHKQME EHSMLMGRKNQYRENGHTAQ GNLQIQCHPLQATNDFLHRIGK NYFKVHMEPKKSPHRQVNPKP KEQSWRHHTT*LQTILQGYSNQ NS\MVLVPKQRYRSMEQNRAL RNNAAYLHYSD\L*QT*EKQA WGKGIP\IYKM\AL\GKLAS\PM*

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19911	50279	A	20027	1	3159	MGDFNTPLSTLDRSSRQKVNK DTQELNSTLHHADLIDIYRTLHP KSTEYTFFSAPHHTYSKIDHVV GSKALLSKCKRTEIITNCLSDHS AIKPELRIKKLTQNRSTTWKLN NLLLNDYWVHNKMKAEIKMFF ETNENKDTTYQNLWDTFKAVS RGKFIALNAHKRKQKRCKIDTL ASQLKEVEKQEQTHSKASRRQ EITKIRAELKEIETQKTLQ\KISES WSWFFEKINKIDRPQARLIKKK REKNQIDTIKND
19912	50280	A	20028	2	3767	HRLANWIKSQDPSVCCIQEAYL TCRDTHRLKIKGWRKIYQANG KQKKAGVAILVSDKTDFKPTKI KRDKEGLYIMVKGSIPREELTIL NIYAPNPEAPRFTKQVLSDLQR DVDSHTIILGDFNTPLSALDRSM RQKVNKDTQELNSALHQADLI DIYRTLHPKSTEYTFFSAPHHTY SKIDHRVGSKALLSKCKRSEIIT NCLSDHSAIKLELRIKKLTQNCS TTWKLNNLLLNDYWVHNEMK AEIKMFFETNEN
19913	50281	A	20029	3311	9648	KLYVCITRITNAEKYLKELMEL KAKAQELCEECRSLRSRHDQLE ERVSVMEDQMNEMKQEEKFRE KRRKRNEQSLQEIWDYVKRPN LRLIGVPESDGENGTKLENTLQ DIIQKNFPNLARQANIYIQEIQEI QRTPQRYSPRRATPRHIIVRFTK VDMKEKMLRAVREKGFKPTKI RRDKEGHYIMVKGSIQQEELTI LNIYAPNTGGPRFIKQVLSDLQ RDLDSHTIIMGDFNTPLSTLDRS MRQKINKDIQEL
19914	50282	A	20030	2031	6332	QDSNSHITILTLNI\NGLNAPI*R HD\RNCNWIKSQDPSVCCIQET HLTCRDTHRLKIKGWRKIYQA NGKQKKAGVAI\LVSDKTDFN PTKIKRDKEGHYIMVKGSIQQE ELTILNIYAP\NTGAPRFIKQVLS DLQRDLDSHTLI\MGD\FNTPLS TLDRSRRQKVNKDTQELNSAL HQADL\IDIYRTLHP\KSTEYTFF SAPHHTYSKIDHIVGSKALLSK CKRTGIITNYLSDHSAIKLELRI KNLTQSR
19915	50283	A	20031	2	178	
19916	50284	C	20032	88	228	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19917	50285	A	20033	3	382	VDRTIMSDSLVVCEVDPELTEK LRKFRFRKETDNAAIIMKVDKD RQMVVLEEEFQ\FVVYSYKYV HDDGRVSYPLCFIFSSPVGCKPE QQMMYAGSKTRLVQTAELTK VQTGMWLQSVRERWCGSWV
19918	50286	A	20034	89	633	KTAELRKEEACGQNNHALPGS LRQSDSLVVCEVDPELTEKLRK FRFRKETDNAAIIMKVDKD/RG QMVVLEEEF\QNISPQREL\KMG FPRRDKPR\FVVYS\YKYVHD\D G\RVSYP\LCFIFPPRPVGCKPE\Q QMMY\AGS\KNRLV\QTAELTK GVPKSRTT*LTSLRPWL\QEKLS FLSLISGAGD
19919	50287	A	20035	78	638	WLDLTWKESSADSQLFLEKMD HSHHMGMSYMDSNSTMQPSH HHPTTSASHSHGGGDSSMMM MPMTFYFGFKNVELLFSGLVIN TAGEMAGAFVAVFLL\AMFYE GLKIARESLLRKSQVSIRYNSMP VP\GQNG\TILYGRTHKTVG\QQ\ MLSFPHLLQTVLHIIQV\VISYFL MLIFMTYNGYLCIAVA
19920	50288	A	20036	1	849	MSQKMENLIGNAHISAYEIIKEF QKEQHQAGLPGTTVPCSCQVY KCSKRPERVAREGPSEDLEPLP QTVRKCGQGCTLHGAGGSQGQ VGARPFGIGGVEALWFLASPSY WAPLIPQCQLGKLLVVRLVQL QARRELAPMLAPGAACPMVAT ACLTVQWPDPMLTHTPLTIPHL TCSLLGGNVELLFSSLVINTAGE MAGAFVAVIILAVFYEGL\IAQE SLL*PNGTILM*THKTVGQQML SFPHLLQTVLHIIQVVISYLLMLI FMTYNGSSELLFRGERPR
19921	50289	B	20037	308	568	
19922	50290	A	20038	394	528	
19923	50291	A	20039	186	856	TWGKGDILRRPRRKMSSY/SHF FVQTCRGG\HKKKHPRLLQVN\ FSEF\SKEVLQRGWRPMSCLKR KGKILKIWAKAGQGPFLERELK TLYPLPKGEDQKKKFKDPNCTP RGPPS\AFFPLLALEYPPQKSKG EHPWPVPLVDVAEENWETMW ELTLLQMDKQP\YEKKA\AKLK EKYEKDIACISSLKGKPDAAKK RELSRPEKSKKKKEEEEDEEDE EDEEEEEDE*DEEDEEEEDE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19924	50292	A	20040	1	413	GAMRGDRGRGRGGRFGSRGGP GGGFRPFVPHIPFDFYLCEMAFP RVKPAPDETSFSEALLKRNQDL APNSAEQASILSLVTKINNGNE KL\VGSPGTLKAHIEKFTRGIPY KRGTVSRGHNVADLGGKLKIL\ PPLEAV
19925	50293	A	20041	70	1451	GAMRGDRGRGRGGRFGSRGGP GGGFKPFVPHIPSDFYLCEMAF\ PRVKPAPDETSFS*GLA*RRNQ D\LAPNSAEQ\ASILSL\VTKI\NN V\IDNLTCGSQGHFEVAKLEEV\ RQVGDPIKRGTMTTGHNVA*/L WVVIPQEFWQRLEA\VACPGGN KVVESLR/SHQDPSESFKPCLTN E\TGFEISSSDATVKILITT\VPP\N LRKLDPELHLDIKVLQSALAAI RHARWFEENASQSTVKVLIRLL KDLRIRFPG\FEPLTPW\ILDLLG\ HY\AVMNNPTRQPLGLKRWHN RALAWQISGLAGTVSCQG\SVG YSIDPCESWQL*ELHTVMTLEQ Q\DMV\CYTAQ\TFVRILP\HGGF RKILG\QEVDASYLASEIST\WD GVIVTPFRKRLYEKP\PEK\KEG EEEEENTEEPTSRRGRRK\HGN\ SGVTIPLPLLFPNPRGKTGALSC PAYWALHGDRHFPWDREDSRK
19926	50294	A	20042	253	379	
19927	50295	A	20043	284	1062	APRNYLPQRATASVRRQQISFS NEHTPHQSLHEIPNVRQRHSGL MKLNTMGAMTTSTTSAVANH* PSNKRTPLVSV/MQSASPEQRQ AVRERMQTNPKIQQRREAARE RIQSASPEQRQAVREKMQTNPQ NQQRRDAARERIQSASPEQRQV FKEKVQQRPLNQQQRDNARQR VQSASPEQRQVFREKVQESRPQ RLNDSNHTVRLNNEQRSAVCE RLSERGARRLESLYGRHMQAN PEPPKKNNDKSKKISRKPLAAK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19928	50296	A	20044	1	2269	MSPDIPQVSPEVGLYPVANHSSI VVPTCHSLSEEDTEAQRNHELD TVKALREDAQVLKIPNQSPKDT LVTALQLAQKGTKAAAIRLGA KVGQKQSRQAKSSPALVVPGL LSFPRARFFEWQSPGLPNTAAM ENGTGPYGEERPREVQETTVTE GAAKIAFPSANEVFYNPVQEFN RDLTCAVITEFARIQLGAKGIQI KVPGEKDTQKVVVDLSEQEEE KVELKESENLASGDQPRTAAV GEICEEGLHVLEGLAASGLRSIR FALEVPGLRSVVANDASTRAV DLIRRNVQLNDVAHLVQPSQA DARMLMYQHQRVSERFDVIDL DPYGSPATFLDAAVQAVSEGG LLCVTCTDMAVLAGNSGETCY SKYGAMALKSRACHEMALRIV LHSLDLRANCYQRFVVPLLSIS ADFYVRVFVRVFTGQAKVKAS ASKQALVFQCVGCGAFHLQRL GKASGVPSGRAKFSAACGPPVT PECEHCGQRHQLGGPMWAEPI HDLDFVGRVLEAVSANPGRFH TSERIRGVLSVITEELPDVPLYY TLDQLSSTIHCNTPSLLQLRSAL LHADFRVSLSHACKNAVKTDA PASALWDIMRCWEKECPVKRE RLSETSPAFRI\LSVEPRLQANFT \IRED\ANPSSRQRGLKRFQA\NP EA\NWGPRPRSRP\GGKAADEA MEER\RRLLQNKRKEPPEDV\A
19929	50297	A	20045	1578	2356	PLRRWACNHKLRQNAHQLSSTI HCNTPSLLQLR\SALLHADFR\V SLSHACK\NAVKTDAPASALW\ DIMRCWEKECPVKRERLSETSP AFRILSVEPRLQANFT\IREDANP SSRQRGLKRFQANPEANWGPR PRARP/GVSGGKVGVGLSQGKK G*RADGVPPTPSPSHRGKAADE AMEERRRLLQNKRKEPP\EDVA QRAARLKTFPCKRFKEGTCQRG DQCCYSHSPPTPRVSADAAPDC PETSNQTPPGPGAAAGPGID

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19930	50298	A	20046	1	791	MGPSSIHHSSQHATAPQILPKVR AGPRSSGCRISECRREEKPPKGR RGLKDATRPGVNWGPDGGVQS GAGAQPWSLTPLPPGSVSPAGR AQRRSMRAAAAQERSPGRRRL GKEPLIRESWTRSAPWRCLSQD AGRAGSQVCGSSPQTRGAAAE KVAVTGAKSCSGRGKKAAAAR AKSRGGGGRKTQKAAAAKSRG C/AGQRSPKSRGSRG*IPRGRGQ KAAVAGAESNGGGGKKSRRRR HKAAKTRSSGGKNPWRQKAAS AGAK
19931	50299	C	20047	76	327	
19932	50300	A	20048	336	814	ANFSLEDPSCSPPPRLLAGSFVD SPQSLSCMRSKNPLLGSGSGPLS PTYIL*ATTPHFLLPQPLITTSPSS PSPPSPPLPPPPPSFSSSYSSSSFF E/NRVPLCCPCFGSAIRKPSPSVS TKARPQGETGRSLALLFLPQRP SSSLHRSDTLYRDCVHRI
19933	50301	A	20049	1	310	
19934	50302	A	20050	1	1482	
19935	50303	A	20051	3	2455	
19936	50304	A	20052	3	1441	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19937	50305	A	20053	1	2322	MAEGKGEAGTFFTGQQDRLLF VFFIITIVVGLFRCSVFSSSSSSSS LSSSSSSSSSSSSLSSSFLHLFFIFIF VFFVFIFFVFIFVFVFAFFFIFFVF VVFFVFFFFVLLVEILMRPTISIR GQKLKISDEMSKDCLSILYNTC VCTEGVTKRLAEKNDFVIFLFT LMTSKKTFLQTATLIEDILGVK KEMIRLDEVPNLSSLVSNFDQQ QLANFCRILAVTISEMDTGNDD KHTLLAKNAQQKKSLSLGPSA AEINQAALLSIPGFVERLCKLAT RKVSESTGTASFLQELEEWYT WLDNALVLDALMRVANEESEH NQASIVFPPPGASEENG\LAHTS ART\QLPQSMKIMHEIMYKLEV LYVLCVLLMGRQRNQVHRMIA EFKLIP\G\LNNLFDKLIWRKHS ASALVLHGHNHY\CDCSPDITL\ KIQFLRLLQSFSDHHENKYLLL NNQELNELSAISLKANIPEVEAV LNTDRSLVCDGKRGLLTRLLQ VMKKEPAESSFRFWQARAVEE FPSRGTTSYADQMFLLKR\GLL EHILYCIVDS\ECKSRDVLQSYF DL\LGEL\MKFNVDAFKRFNKYI NTDAKFQVFLK\QI\NSSLVDSN MLVRCVTLSLDRFENQVDMKV AEVLSECRLLAYISQ\VPTQMSF LFRLINIIHVQTLTQENVSCLNT\ SLVILML\ARRKERLPL\YLRLL\ QR\MEHSKKYPGLL\LNNFHNL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19938	50306	A	20054	237	2033	TSPTPLPLPATMPKTISVRVTTM DAEL\EFAIQPNTTGKQLFDQV VKTIWLEGKFGFFGLQNQDT\K GFST\WLKLNRKVD*PRNVRKE \SPLLFK\FRAKFYP\EDVSEELIQ DITQRLF\FLQVKEGILNDDIYCP \PETAVLLASYAVQSKYGDFNK EVHKSGYLAGDKLLPQRVLEQ HKLNRD\QWEERIQVW\HEEHR GML/RGEDAVLEISERLLQDLE MYGVNYFSI\KNKKGSELWLG VDALGLNIYEQNDRLTPKIGFP W\SEIRNISFNDKKF\VIKPIDKK APDFVFYAPRLRINKRILALCM GNHELYMRRRKPDTIEVQQMK AQAREEKHQKQMERAMLENE RKKREMAEKEKEKIEREKEEL MERLKQIEEQTKKAQQEL\EEQ TPRAPGTLSQERKRAQSEAEKL AKERQEAEEAKEALLQASRDQ KKTQEQLALEMAELTARISQLE MARQKKESEAVEWQQKAQMV QEDLEKTRAELKTAMSTPHVA EPAENEQDEQDENGAEAS\ADL RA*S\MAKDRSEEERTTE\AEKN ERVQKHLKALTSELANARDES KKTANDMIHAENMRLGRDKY KTLRQIRQGNTKQRIDEFESM

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19939	50307	A	20055	2	2230	PRVRLGAHGCPPGPRRCGCCW ANGLRSSERCVLESLRPCVQSA TRGLRCGCDSAANLDTMAKPP QGAGDRGSIHDFPGFDPNQDAE ALYTAMKGFGSDKEAILDIITSR SNRQRQEGCHSYK\SLYGK\DLI ADLK\YELTGKF\ERLIVRLMRP PAYCDAKEIK\DAISG\IGTDEK\ CLIEILASRTNEQMHQLVKRITK MPTERDLEADIIGDTSGHFQKM LVVLLQGTREEDDVVSEDLVQ QDVQDLYEAGELKWGTDEAQF IYILGNRSKQHLRLVFDEYLKT TGKPIEASIRGELSGDFEKLMLA VVKCIRSTPEYFAERLFKAMKG LG\TRDNTLIRIMVSRSELDMLD IREIFRTKY*/EKSLYSMD/IKND TSG/QSYKKTLLKLSGGDDDAA DQFFPKAAQVAYQMWELSAV ARVELKGTV\RPANDF\NP\DAD AKALR\KAMKGLGTDEDTIIDII THRSNVQRQQIRQTFKSHFGRD LMTDLKSEISGDLARLILGLMM PPAHYDAKQLKKAMEGAGTDE KALIE\ILATRTNAEIRAINEAYK \EDYHKSLEDALSSDTSGHFRRI LISLATGHREEGGENLDQARED AQVAAEILEIADTPSGDKTSLET RFMTILCTR\SYPHVRRVIQEFIR LTNYDVEHTIKK\EM\SGDIRDA F\VAIVQ\SAKTKPLFFPDK\LYK SMKG\AGTDEKTLTRIM\VSR\G
19940	50308	A	20056	3	368	
19941	50309	A	20057	1	936	MMKCEEQKEEEEETVRMFSAA SQPLDPDGTLFRLRFTAMVWW AITFPVFGFFFCIIWSLVFHFEYT VATDCGVSASSPAPGSGPG\PN YLPSVSSAIGGE\VPQRYVWRFC IGLHSAPRFLVA\FAYWNHYLS CTSPCSCYRPLCRLNFGLNVVE NLALLVLTYVSSSEDFTIHENAF IVFIASSLGHMLLTCILWRLTKK HTVSQEVRSIPSGGSKAAQKKI KDICPQDSGNGEDRKSYSWKQ RLFIINFISFFSALAVYFRHNMY CEAGVYTIFAILEYTVVLTNMA FHMTAWWDFGNKELLITSQPE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19942	50310	A	20058	119	930	ESLFPSLAFLSPSKPLFSHPPSFH LSNKQDTSPCSCVLSSPFSLRTE ASIGVPGIKMDGGNAQEHGHFL RLPQVPNYLPSVSSAIAREVPQR YVWRFCIGLHSAPRFLVAFAY WNHYLSCTSPCSCYRPLCRLNF GLNVVENLALLVLTYVSSSEDF /TWVPG*GRSGEVFPEGTGLPLP HSDLPTSWCGHSLQCGSQSSFP PAIHENAFIVFIASSLGHMLLTCI LWRLTKKHTVSQEVRSIPSGGS KAAQKKIKDICPQDSGNGEVGT EF
19943	50311	A	20059	3	206	
19944	50312	B	20060	80	304	
19945	50313	A	20061	1	2111	MAATGTAAAAATGRLLLLLLV GLTAPALALAGYIEALAANAGT GFAVAEPQIAMFCGKLNMHVN IQTGKWEPDPTGTKSCFETKEE VLQYCQEMYPELQITNVMEAN QRVSIDNWCRRDKKQCKSRFV TPFKCLVGEFVSDVLLVPEKCQ FFHKERMEVCENHQHWHTVV KEACLTQGMTLYSYGMLLPCG VDQFHGTEYVCCPQTKIIGSVS KEEEEEDEEEEEEEDEEEDYDV YKSEFPTEADLEDFTEAAVDED DEDEEGEEVVEDRDYYYDTF KGDDYNEENPTEPGSDGTMSD KEITHDVKVPPTPLPTNDVDVY FETSADDNEHARFQKAKEQLEI RHRNRMDRVKKEWEEAELQA KNLPKAERQTLIQHFQAMVKA LEKEAASEKQQLVETHLARVE AMLNDRRRMALENYLAALQS DPPRPHRILQALRRYVRAENKD RLHTIRHYQHVLAVDPEKAA\Q MK\SQVMTHL\HVIEERRNQSLS LLYKVPYVA\QE\IQEEIDDVLQ EQRADMDQFTASISE\TPVDVR V\SSDESEEIPP\FHPFHPFPAPT* ERRILGVGRAGWGGLIGAEEK VINSK\NKVDE\NMVH*TRLLD VKEMIFNAERVGG\LEEERESV GPLREDFSL\SSSALIGLLVIAVA IAT\VIVISLVMLRKRQYGTI\SH GIVE/VVDPMLTPEERHLNKMQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19946	50314	A	20062	61	2634	SQPAEGKWSTGNAATATAGVL LLPAACGA*TAPALAL\AGYIEA LAANAGTGFAVAEPSNSPMFC GKLNMPCETFQTGK\WEP\DPN QAPKSCF*NQKEEVSSSYF\QEM YPRAYRSQNVMEAKPAGLRID N\WC\RRDKKQ\CKSRFCYTFSS CLVG*IL*SDVPAKFPEKVPSFF HK\ERMEVCE\NHQ\HW\HTVSQ KKAMS*PPGK*PLIIANGMPASP CGGRTSFHGTE\YVC*PSAQRLL GSCV/TKEEEEEEE\EKEEEEDE KGD\YAVYKGNFLL*ADLEDST EA\AVDEDDEDEREGEDVVEDR EYYYDTFKGDDYNEENPN\DPG SAATMSD\KEITHD\VKAVCSQE A\MTGPCRAVMPLWYFYLSKG KCVRFIYGGCGGNRNNF*SEDY CMAVCKAMIPPTPLSTNDDDVF F*TSKDDNEHARFHKAKEHVVI RPRNRMDRLK*EW*YAQL\QLK \NLPKAERQ\TLIQHF\QA\MVKA LEKEAA\SEKQQLVET/HTLARV EAMLND\RCLMALENY\LAALQ SDP\PRPHR\ILQALRRYVRAEN KDRLHTIRHYQHVLAVDPEKA AQM\KSQVM\THL\HVIEERRNQ SLSLLYKVPYVAQEIQEEIDELL QEQRADMDQ\FTASISE\TPVDV \RVS\SEGRGEIPPFHPFHPFPALP ENEDTQPV\LYHPMKKGSGVGE QDGGLIVAEEK\VINSK\NKVDE
19947	50315	A	20063	734	1049	CCPPGGTGRCLGTCGYHN/CGC SI*SSDLPQR/CCVSGRR*TFWM VWSACVCASGCLPGGNRCCCP VSLSPERIAVLGGLLPRKPPCRV VGERRSVLTLQATSQCPR
19948	50316	A	20064	6	1174	
19949	50317	A	20065	285	567	SRRRSSSYERSGSYSGRSPSPYG RRRSSSPFLSKRSLSRSPLPSRKS MKSRSRSPAYSRHSSSHSKKKR SSSRSRHSSISPVRLPLNSSLGAE LSRKKKERAAAAAAAKMDGK ESSYERSGSYSGRSPSPYGRRRS SSPFLSKRSLSRSPLPSRKSMKS RSRSPAYSRHSSSHSKKKRSSSR SRHSSISPVRLPLNSSLGAELSR KKKERAAAAAAAKMDGKESK GSPVFLPRKENSSVEAKDSGLE SKKLPRSV

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19950	50318	A	20066	214	805	LGLQAANDLHLEYAMGKRYFC DYCDRSFQDNLHNRKKHLNGL QHLKAKKVWYDMFRDAAAIL LDEQNKRPCRKFLL\TGQRDFG SN\CRFS\HMSER\DLKEL\SIQVE EGRGEPREWLL\DAPELP\EGHL GGLGLEERRAKRLELQPQVSQ G*NPFRTT/VSFQ*PRRVGQPSS GSLPPNSCGHPPPGGLALLQPR V\QWG
19951	50319	A	20067	2	418	
19952	50320	A	20068	1	1134	ATTARRRGAPGTPSLAAEGNGL SARVDEGVEEFFSKRLIQQDRL WAPEEDPATEGGATPVPRTLRK KLGTLFAFKKPRSTRGPRTDLE TSPGAAPRTRKTTFGDLLRPPT RPSRGEELGGAEGDTSSPDPAG RSRP\PTQEIARPTR*YCCLPRRR QRWVPDPTSGGPWSGEKQNWL HPLNSGYK*CCRG*ASAEAAGV PKARGSKAKMARSRKLAQMV TLWTVPRRPLPSRSSPAPT/PVS ADPSCRPGPGSQGPESATWKTL GQQLNAELRSRGWGQQDGPGP PSPGQSPSPCRTSPSPDSLGLPED PCLGPRNEERPLRLQRSPVLKR RPKLEAPPSPSLGSGLGTEPLPP QPTEPSSPERSPPSPATDQRGGG
19953	50321	A	20069	3	206	
19954	50322	A	20070	3	349	
19955	50323	A	20071	226	610	
19956	50324	B	20072	18	1306	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19957	50325	A	20073	3	1665	LRPQGREGGDWEGGRSPFSLPY GSLRGRVVSTAQFRVPMPSASA SRKSQEKPREIMDAAEDYAKER YGISSMIQSQEKPDRVLVRVRD LTIQKADEVVWVRARVHTSRA KGKQCFLILRQQQFNVQALVA VGDHASKQMVKFAANINKESI VDVEGVVRKVNQKIGSCTQQD VELHVQ\KIYVISL\AEPRLPLQL DDAVRPEAEGEEEGRATVNQD TRLDNRVIDLRTSTSQAVFRL\Q SGICHPLRETLINKGFVEIQTPKI ISAASEGGANVFTVSYFKNNA\ YLAQSPQLYKQMCICADFEKVF SIGPVFRAEDSNTHRHLTEFVG LDIEMAFNYHYHEVMEEIADT M\VQIFKGLQER\FQTEFQTVNK QFPCEAISNFWEPTLRLEYCEAL AMLRGKLESEMG\DEDDLSTPN EK\LLG\HLVKEKYDT\DFYILD KYPIGL*RPF/HLYPCP*PPRNPQ QVPTLTNMFHEREKKYLSGAQ\ RIH\DPQL\LTERALH\HGI\DLEK IKAYIDSFRFGSPSP/HAGGGIGI/ ENRVTMLFLGLHNV\RQTSHVP
19958	50326	A	20074	3	424	
19959	50327	A	20075	178	859	
19960	50328	C	20076	304	592	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19961	50329	A	20077	1381	2936	PTNPRPSPGLARWAESYEAKCE RRQEIRESRRCRPNVTTCRQVG KTLRIQQREQLQRARLQQFFRR RNLELEEKGKAQHPQAREQGP SRRPGQVTVLKEPLSCARRISSP REQVGRVKGHTAVCSGTLSGQ GGWV/R/RPPSLHRACRES*DNC PSSLALTLSHPIHSSLERTQ*I/SH ALTFWNSMIYPRSSRLILPQASD SSW/KGKGMKFFLNKAWASMC SHLIFLSTGKHSEGYFHLRNLEL NEKNVFEP\KAKESLQKVLEEK MNAEQQLQSTQVWGCHIDMG LGTPGSLGNKGSQLQRTLGTQH RELESQLHVLQSKLQVPGTGGG EGRQGMGRRDGDERSCSAKIE CLQGDRDLCSLDTQDLQGTLLL GGLECMAAMAK*AKKKETEAF QILKVHRVFLGSWPTKGTQVW SPKSFPNEVEPEGTGKEKDWDL RDQLQKKTLQLQAKEKEVRG* PEIVRAHLRNSRETWEAVKNCR EELNQSQQLPPRVRGSLLPIKP WMMGRFLL*PSFAHKDNLMI
19962	50330	B	20078	1	1173	
19963	50331	A	20079	16	1584	SSRFLFSLGWLWEAPEVGTRSG WLQRRPGLGAG\LGG\QEKQFL PALLSFFIYNPRFWPREGEEENK ILFYHPNEVEKNEKIRNVGLCE AIVQFTRTFSPSKPAKSLHTQKN RQFFN\EPEENF\WMVMVVRCPI IEKQSKDGKPVIEY\QEEELLDK VYSSVLRQCYSMYKLFNGTFPE SHGRRR\VKLLKERLEKFFHRY LQTLHLQSCDLLDIFGGISFFPL DKMTYLKIQSFIN\RMEESLNIV KYTAFLYNDQLIWSGLEQDDM RILYKYLTTSLFPRHI\EPELAGR DSPIRAEMPGNLQHYGRFLTGP LNLNDPDAKCR\FPKIFVNTDDT YEELHLI\VYKAMSAAVCFMID ASIHPTL\DFCRRTGTASLGPQL HSGWASGHLVEQF\NINKGDVP GLRK\EPQFKFI\YFNHMNLVEK STVHIEENAPACPLTSVHPDL\M KIPR*PSNSDLYPRV\DEDEGDH C*RALSDYW\VVGK\KSDPAGS LYVIFEIQKNAKP*LKVK*KRSK KPLCNASSNNILPSLD

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19964	50332	A	20080	85	420	LSNLFLHATNDGALTSTTIPHPP MRQPTS/S/GDGSEIFLHTELKLL EPPHAWPQSCPPRL*MTRQQLL PMTFLLKAHSKAGIESPGLNPR PGFSLHPVLPAASSAAFLLPSFR
19965	50333	A	20081	220	563	
19966	50334	B	20082	1	576	
19967	50335	A	20083	111	3586	TMFGLKPPLYFLPGSSLSSESSP VSSPATNHSSPASTPKRVPMGPI IVPPGGHSVPSTPPVVTIAPTKT VNGVWRSESRQDAGPRSSSGG RERLIVEPPLPQEKAGGPAIPSH LLSTPYPFGLSPSSVVQDSRFPP LNLQRPVHHVVPPSTVTEDYLR SFRPYHTTDDLRMSSLPPLGLD PATAAAYYHPSYLAPHPFPHPA FRMDDSYCLSALRSPFYPIPTPG SLPPLHPSAMHLHLSGVRYPPE LSHSSLAA
19968	50336	A	20084	576	1261	GDDLCSVGAPCRSTWACSTPLR CVRRSREFPGLPHAAGAARGFR LPAGRPVPARPGAAAARAAAA GEAHRPLPCGRRPGPVRRAAVP PRPRPPRRGLRGRREGPAAPAG PGGPSLLCASAGRHGPPGLRAG QGLRDSAGEAGGEPAP/AGPRP EASP*RSSLCENTCTEAGLGPRR AAGDLGSPWLTSGLLWGSFFLF FLFFFVILRQSLLLSPKTEVAVA QLMSHCSL
19969	50337	A	20085	248	356	EGEEEGDEENDPD\MTQRRIKT QQSASSSEAGCMWP
19970	50338	A	20086	1043	1191	NFYFSCKNKNKANKQQITWK\ KGLSNGCKFILSGGRQKGRTLP QRERMA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19971	50339	A	20087	287	1401	CQNPQIPCSPFKKRLDG/LWVET PT\GYIESLP\RVVKRR\VNALKN LQVKCAQIEAKFFE/EKVHGFFE RKYAVL\YQPLFD\KRF\EIINAI YEPTE/EKECEWETR*RKDEDF GGNWKEKGQIEDEKKDE\EKE DPKG/IFPEFWLTVFK\NVDLLS DMVQEH\DEPILKH\LKDIKVKF SDA\GQPMSFVLEFHF\EPNE\YF TNEVL\TRTYRMRSEP/DTRLIL DPFSFDGPEIMGCTGCQIDWKK GKNVTLKTY*GGGRKHKGRGT \VRTVTKT\VS\NDSFSNFFPP\PE IPE/DVGDLDDDAGSLFLAGRLS EIWFTFYRERIIPRSSVNILPGEA\ IEDDDDDYDEEGEEADEEGEEE GDEENDPRLLTQR\RIKTQQSAS
19972	50340	A	20088	1	350	DNLEAEAVAPCTAAARAVAPD LFVFAA*PESVSAGGPQQPCRSP IVKPGLPSFRPSSCTQPWLTHSW AEDVDLRVNFAMNVGKARGFF KKGDVVIVLTGWRPGSGFTNT MRVVPVP
19973	50341	A	20089	1	399	
19974	50342	A	20090	1	394	
19975	50343	B	20091	82	351	
19976	50344	A	20092	3	789	CGTSRMCHTTEELA/SDPIL/YRP LAVALDTKEPEI/RNGLIKGSGT SEVELKKGATLKFTRNNAY/ME KCDENILWLDYKNICKVVEVG SKIYVDDGLISLQVKQKGADFL VTEVENGGSLGSKKGVNLPGA AVDLPAVSEKDIQDLKFGVEQD VDMVFASFIRKASDVHEVRKV LGEKGKNIKIISKIENHEGVRRF DEILEALGHWAVVPLKPTLALA LTCFSSSLGLSSLHLSPPSTQLSC SKHSTLHLPFSPTTAAPPGLLL
19977	50345	A	20093	3	424	
19978	50346	A	20094	2	173	IYHLQLFEELR/RLAPITSDPTEA TAVGAVEASFKCCSGAIIVLTK SGRSAHQQELGP
19979	50347	B	20095	1	1362	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19980	50348	A	20096	1	1982	QRDNLEAEAVAPCTAAARAVA PDLLRLCSVRPSRSAPEDRQQP CLFSHSEAGTAFIQTQQLHAA\ MADTF/LWEHMCRL\DIDSPPIT ARNTG\IIC\TIGPGLPDQVETLK EDD*SLGMKCGSVLNFSSWEL HGVTMRETIQGMWRTANGKA FAFLTPFLLPGPLAVGFRTLKGP EIPNWGSSKGNGT\AEVGA*RK GATLKFTL\DNAYM\EKC\DENI L\WLDYKNICKV\VEVG\SKIYV DDGLISLQGKQK\GADF\LVTEV ENGGSLGI\MKGVNLP\GAAVD FACLCRRKDIQDLKFG\VE\QDV DMVF\ASFIPQSILMFHEVRKVL G\EKGKDHQGLSSKIRESMRGF RRFD\EIL\EASDGI/LWVARG*F *ALRIPAEK\VF\LAQKMIDLDRF NRA\GKP\VICATQMLESMIKKP RPTRA\EGSD\VAN\AVLDWKPT CIMLSWEKQPKGDYPL\EAV\R MQHL\IAREARWLPSYH\LQLF\ EELRPPGAQLTSDPTEATAVG\A VEASFKCC\SGAII\VLTKSGKVC SPRLARYRPRAPIIAVTRNSPGK LVRAHL\YRGIFPG\VCQGPDSR RAWA*DIG\LRVKLCHGMFGK ARGFFQERGDVVHCA*PEWRP WLPAPPNNMRVVPCCRDGPRG PSSSRPCSHPFFPKPIPFRPSNGL VELHSGAVNVATG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19981	50349	A	20097	215	1893	TVTFSQCRFGKMLPLEKAFASP QELPSPAGSAHAGVSSRSSSRK NPRPSLRGPLLTLEFSRLRFREF VY\QEAAGPHQTLARLHELCRQ WLMPEARSKEQML/ESLLVLEQ FLGILPDKVRPWVVAQYPESCR SSLLVEGLADVLEEPGPSTVDR DAAGLPCGLILNS*RWSVREAH GPSAATRRAREPQPGPWSWGD PGTF*DTLAFSGPPVSGTEEGQ/ MKQRPKRTALP/HTEQVGGHE QVGGRSQ/RTTNVSEAEVLSRG PSAPGGVGPPGPC\EENLKSYRK LLLWEGGRRQESAGCACEEAA PAG\GCLSCLRRRPLGTPLPIPRR A\H*GGGRAAWEGPGPAGPPGR GVRLCHRIAEAVRHPAACP/ET GARRNWEPRGRTPRMGTGRAS RA/CSSSGDSAGLEAGQGPGAD EPGLSRGKPYACGECGEAFAW LSHLMEHHSSHGGRKRYACQG CWKTFHFSLALAEHQKTHG\KE KSYALGGARGPQPSTREAQAG ARAGGPPESVEGRGSPRTPRGA EVSRCAVPFRRGRFAGRESQTR HWAFPRPWVAASCGVCGRPLP
19982	50350	A	20098	5	372	
19983	50351	A	20099	1	129	
19984	50352	A	20100	1	627	
19985	50353	A	20101	1	441	
19986	50354	B	20102	1	477	
19987	50355	A	20103	2007	2156	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19988	50356	A	20104	1	717	MKLRTLAVSVTALKVARLGSA PSDVQMCLEFLPSDSGAQLASP SGSRTGAAGGAACQSGAVRSY SSALGWSMGLGAVEQGVVLV GDARAAQEPMEWMGGSGMAG CRSRALHRGKAAKARREIEHSA GRKGLFGSARLIPATAMAPRSR LLSLGRRGNFRSRVLRRKSRPL EEAARRWRDCPTGFGALVAGA GSGRAPGVPPKRLPARTKAQVS RETRGSGEVTAQGGKGPRGLW ILLWGFYNLLPTTSHAESYPERL IQKVVSEKIARALARYLHLPFG LLGGNKTIVYSWEALRFHHQLT PSVITNTVIKVYEEPKLSQQKSR TLDVSTDEEDKIHHSSESKDDQ GLSSDSSSSLGEKELSSTVKIPD AAFIQAARRKRELARAQDDYIS LDVQHTSSISGMKRESEDDPEIS RNEETSEESQEDEKQDTWEQQ QMRKAVKIIEERDIDLSCGNGS SKVKKFDTSISFPPVNLEIIKKQL NTRLTLLQETHRSHLREYEKYV QDVKSSKSTIQNLESSSNQALN CKFYKSMKIYVENLIDCLNEKII NIQEIESSMHALLLKQAMTFMK RRQDELKHESTYLQQLSRKDET STSGNFSVDEKTQWILEEIESRR TKRRQARVLSGNCNHQEGTSS DDELPSAEMIDFQKSQGDILQK QKKVFEEVQDDFCNIQNILLKF QQWREKFPDSYYEAFISLC*RQ
19989	50357	A	20105	154	744	SQRNLCLGRVWYILFFLFAFLQ TLELVSHERRGRTGITNA*VSNS PRRELGFHVL*R*QFLLLFLFSH RLRSPAGFT*WIPHRGCRWSCL PVLRHALAFLSPWVVDGTGRR GAGGGARRGGSGHTGAHGVG GRLRHGRLQVPSPLRARSPFLLS CTLSCQLDSPCLTCSQGHQYKY QHSDKGKRLTIVTKSFDFIPS
19990	50358	B	20106	1	531	
19991	50359	C	20107	99	323	
19992	50360	A	20108	305	658	
19993	50361	B	20109	79	936	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19994	50362	A	20110	381	1169	LPSRGAGLGTCSPPCLSLPPTPW APVRPEPPQGAPPPAPRRPVPST TQGLRSASARHGTGRQLHLQP WCGIHWVKLAGLLSLVGSQHL RGQGSRAAAALTHMHS/PHAC THAHTRAEPLRLPPPPRPLPPPL SPPPLRLCCLRSLFPCPLTESAA KAGSKKFHSVQEIPSPAVCELG VGTVLHIDPEKWRAGRENVET GGKRTGSGKDSTGRGWGQTD YGLGKKERTEEASRSCICLVCV SMRRDALCGQSVGSHFCQWSL
19995	50363	A	20111	3	4804	KRLENIQKTLEVAFSEAVWMQ PSVVLLDDLDLIAGLPAVPEHE HSPDAVQSQRLAHALNDMIKE FISMGSLVALIATSQSQQSLHPL LVSAQGVHIFQCVQHIQPPNQE QRCEILCNVIKNKLDCDINKFT DLDLQHVAKETGGFVARDFTV LVDRAIHSRLSRQSISTREKLVL TTLDFQKALRGFLPASLRSVNL HKPRDLGWDKIGGLHEVRQIL MDTIQLPAKYPELFANLPIRQRT GILLYGPPGTGKTL
19996	50364	A	20112	2	1844	
19997	50365	A	20113	746	1215	PNINRFLKHYREPVPKKRERNY STLWPLCPSTLNKIYTIMSYLSP ATKEYPFFLLLLEQEC*AE*LLA LAVSQPLLSSTTNCLKN*MVTW NGSLIPWSPCKINLTP*/PAVVL QNRRALDLLTAESGGTFLFLEE KCCCYVNQSGIITEKVKEIQGRI
19998	50366	A	20114	1	1338	
19999	50367	B	20115	1	4935	
20000	50368	A	20116	3	421	
20001	50369	C	20117	33	571	
20002	50370	A	20118	3	323	
20003	50371	A	20119	146	809	EKCRHNCSSRVWQSLVSQSVW ATEGQYGRTKNARPVQVK\DS ASFPYQRRYPLRLEAQQGLQKI VKDLKAQGLVKPFNSPCNTPIL GVQKPNGQWKLVQDLRIINEAI VPLYPAVPNPYTLLSQIPEEAE WFTVLDLKDAFFCIPVHRESQF LFAFEDPSNPTSQLTWTVLPQG FRNSPHLFGQALAQDLSQFSYL NTLVLRYLDDLLLAAHLETLCH
20004	50372	A	20120	3	1147	
20005	50373	A	20121	2	1658	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20006	50374	A	20122	2	211	MGIYDFSYFPPGCCLKSRRKSS RGSQE*LALSPGFSGSFGSIQDL TQV*CIQDSTPATLTAVGVDKM
20007	50375	B	20123	86	586	
20008	50376	A	20124	66	433	SSSRTEGARGKRQPMPSP/STEP RVCLTIEGQEVNCLLDTGAAFS VLLSCPGQLSSRSVTI*GVLGQP VTRYFPQPLSCDWGTLLFSNAF LIMPESPTPLLGRGILAKAGAIIH HAVLVTAAL
20009	50377	A	20125	1	459	MAVRYTDENVLRKGTREAGT MMRLRGTTECCADFAAWDVT HDALRATGGELPGAQVMLTTT ECGRHVDFCDRAVWLPRMWG YPLALPGEMRKLYTVRMAGRD ILAKAGAIIHLNIGEGTPVRCPL L/EGINPEVWKTEGQYRQAKNA RPVQVKL
20010	50378	A	20126	260	392	VEVVILPMPVPNLPSIPARITKG RMGTLLLRGLGTT*LYKSCSV
20011	50379	A	20127	1	1740	
20012	50380	A	20128	1	858	MEWEDNLPLELGRTVAKLLSD HSQTPLGIQMFLLFSLSLRKSPL VCLSYLFNFRFTLESEVQHLSG AITLTAWPKIPFLGIREAKSPRS ENTRLATILEAGHRHLGTSVSK DHPVTFWRPRRDLQSDLKQIKI DLGKFSDNPDGYIDVLQELGQS FDLTWRDIMLLLNQTLTPNERS ATITAAREFGDLWYISQVVAAV AGLVSEAVKIIQG\LTVWT/SHD VNGILTAKGDLWLSDNHLLKY QALLLEGPVLRLRTCATLNPAT FLPDNEEKIEHNCQQVIAQTYA
20013	50381	A	20129	1	6530	MWGSDRLAGAGGGGAAVTVA FTNARDCFLHLPRRLVAQLHLL QNQAIEVVWSHQPAFLSWVEG RHFSDQGENVAEINRQVGQKL GLSNGGQELHAVSLEQHLLDQI RIVFPKAIFPVWVDQQTYIFIQI VALIPAASYGRLETDTKLLIQPK TRRAKENTFSKADAEYKKLHS YGRDQKGMMKELQTKQLQSN TVGITESNENESEIPVDSSSVAS LWTMIGSIFSFQSEKKQETSWG LTEINAFKNMQSKVVPL
20014	50382	B	20130	1231	2065	
20015	50383	A	20131	68	372	
20016	50384	A	20132	1	1461	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20017	50385	A	20133	1	806	AVWCTHCCAPTPSGPVLPHSAA MSFLKSFPPPGPAEGLLRQQPD TEAVLNGKGLGTGTLYIAESRL SWLDGSGLGFSLEYPTISLHALS RDRSDCLGEHLYVMVNAKFEE ESKEPVADEEEEDSDDDVEPITE FRFVPSDKSAF*FPCSVEAMFTA MCECQALHPDPEDEDSDDYDG EEYDVEAHEQGQGDIPTFYTYE EGLSHLTAEG\QATLERLEGML SQ\SVSS\QYNMAG\VRT\EDSIR DY\EDGDGRLDTTP\TVCLGQF\ EDADV
20018	50386	A	20134	225	420	RLLGDVCGRLRPRGHEEQRPG GPGARSHSRSGPRMGRDCAGA VPRVTPK*SACAAGGRGGPAT
20019	50387	A	20135	1	687	
20020	50388	A	20136	1	2979	MLRRKKQEDWAAKGSSHACG QIPEEREKGFAVGNVVANLGLD LGSLSARRFRVVSGASRRFFEV NRETGEMFVNDRLDREELCGT LPSCTVTLELVVENPLELFSVEV VIQDINDNNPAFPTQEMKLEISE AVAPGTRFPLESAHDPDVGSNS LQTYELSRNEYFALRVQTREDS TKYAELVLERALDREREPSLQL VLTALDGGTPALSASLPIHIKVL DANDNAPVFNQSLYRARVLED APSGTRVVQVLATD
20021	50389	A	20137	2	296	
20022	50390	A	20138	1187	1292	
20023	50391	A	20139	2	3250	LTSRWRPWPRPPTSASSAGWFC ASTGPWTAAPAKAPPSWASWT SRALRSSRPQTSRLWRR*PRSR AATPSSSGRGTCGIRPTSVFSTT RARSTTRPTSG**KTWTL*MTT SQ/RLLHQSTDRLTAEIWKDVE GIVGLEQVSS\RATAHQVAAPV GVCSGQWDSS/HKESLSRLMAT LSNTNPSFVRCIVPNHEKRAGK LEPRLVLDQLRCNGVLEGIRICR QGFPNRILFQEFRQRYEILTPNA IPKGFMDGKQA
20024	50392	B	20140	1	1816	
20025	50393	A	20141	500	866	QVCLYPGWQHSPGRQRVSG*A HLHTAPLWICQ*SGDCDWHES* GGGM*CVR\FEPPRTSSPPSATS GSLLK*KEKTGLSNSPCSTSTSS GGRTPSTDRMGKTRRQYPSGA GNSEDKVGFPQVF
20026	50394	A	20142	130	226	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20027	50395	A	20143	846	1555	GRKTPSQGRRWSSPRVFLLPGG PKPCYTYPLVGEKLLFRVLPLFP HKPSASNLEKVSHCPECGKTFS RSSYLVRHQRIHTGEKPSQVPV ECGKGF**ALPT/CTAH/HYGTH TGERPYQCGQCGKSFNQSSSLI VHQRTHTGEKPYQCIVCGKRF NI\SSQFSAHRRIHTGESPYKCA VCGKIFNNSSHFSAHRKTHTGE KPYRCSHCERGFTKNSALTRHQ TVHMKAVLSSQEGRDAL
20028	50396	A	20144	93	764	AQERKALKSTPSHSSFSR/WLSR IILKNGSSSSSSSSSSSSSSSSSLRE RERKSCENVNITRNRR/LTAETI ADTIDTSNGSVFLIWTER*EWN\ WLPKPWHQYQLQARASLSEEIL NNRWEQDPEAFRQDPEDQARS/ QWLPRGGSAPV\KQRLLLHHDS VPDHAFLRTRAAGQDLPWETV RRPPDNPDLAPADFSLFPCLGK LLAERRCFSLQRRVPWPPENQP PHRQ
20029	50397	A	20145	1	433	
20030	50398	C	20146	312	443	
20031	50399	A	20147	1	94	
20032	50400	A	20148	2	122	DLLCPQMG*GWKLTALSLQCS LQDGIERSRAKASQCCLSI
20033	50401	C	20149	25	328	
20034	50402	C	20150	157	309	
20035	50403	B	20151	33	2996	
20036	50404	C	20152	167	274	
20037	50405	A	20153	3	130	AGAVQFQALGVPNKDTKSLEL HQKPKPR*GQDDNHRMSPVYV
20038	50406	A	20154	2	453	
20039	50407	A	20155	1	1317	
20040	50408	A	20156	1	1350	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20041	50409	A	20157	970	2559	FPLAYSLLFPP/CSRLSRELLEVV EPEVLQDSLDRCYSTPSSCLEQP DSCQPYGSSFYALEEKHVGFSL DVGEIEKKGKGKKRRGRRSTK KRRRRGRKEGEEDQNPPCPRLS RELLAEKEPEVLQDSLDRWYST PSVYLGLTDPCQPCRSAFYVLE QQRVGLAVDMDEIEKYQEVEE DQDPSCPR*L*AITDA*FCVDT WRCQVQGKQECVQFHVFNEG* ITPTDIAVGFHCSRCLGFHFFLP LSFTHLL*VDHTSKAVWQLHGI LSKFMENY*AHSFHDHCSLCVP RALTQSVL*PLHQCVTRPIR*AH FLLSLSLPLPVFLFHSFLPGPGLS QHKGNNSLPH*WICPFSF*TVPY VSHEI*LGLCGF*FPLAYSLLFPT /CSRLSRELLDEKEPEVLQDSLD RCYSTPSGYLELPDLGQPYSSA VYSLEEQYLGLALDVDRIKKD QEEEEDQGPPCPRLSRELLEVV EPEVLQDSLDRCYSTPSSCLEQP DSCQPYGSSFYALEEKHVGFSL DVGEIEKKGKGKKRRGRR
20042	50410	A	20158	2790	5320	LHLFCHKRQHGGISRALGSSKK PEMNILEISETLRPQLAEKKQQF RSLKEKCFLTQLAGFLANRQKK YKYEECKDLIKFMLRNERQFKE EKLAEQLKQAEELRQYKVVVH SQERELNQLREKLREGRDASRS LYEHLQALLTPDEPDKSQGQDL QEQLAEGCRLAQHLVQKLSPE NDEDEDEDVQVEEAEKVLESS APREVQKAEESKVPEDSLEECA ITCSNSHGPCDSNQPHKNIKITF EEDEVNSTLVVDRE
20043	50411	A	20159	394	3251	GRRVCLFSEDEECKDLIKFMLR NERQFKEEKLAEQLKQAEELR QYKVLVHAQERELTQLREKLR EGRDASR\SLNEHLQALLTPDEP DKSQGQDLQEQLAEGCRLTQH LVQKLSPENDNDDDEGVS/QVE VAEKV\QKSSAPREMQKAEEKE VPEDSLEECAITCSNSHGPYDSN QPHKKTKITFEEDKVDSTLIGSS SHVEWEDAVHIIPENESDDEEE EEKGPVSPRNLQESEEEEV\PQT PWHE*LSHLSIL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20044	50412	A	20160	245	641	ILSVLIAVLCVVGKIPLKEPLCP AAGSAAEACVGQGMPVIQVPC SQQRPSSMCWPRNACQSSRAL GGDESYVPKNRKSFTKHPVSSC /PSPSLGWGRG*R/PGGPGRSPG LALGFPSFSGPAGFGQGTSSPRF
20045	50413	A	20161	7	194	RPLVESRGIPRSPAASFSTACPR NTASIPSAPSWWETAWTQTSS* APPVA*RPS*PSPESPL
20046	50414	A	20162	232	509	MGVLMHRRCTKAPAWAVATY EAPLHCQQLLGVVGVLAGDPS LLDLGGIHQQPQGLPITVLHQA EEADLVLLRAVTDAAALPVEQ HRP*GAPGLLPPPDGGQ*SGDP AAAGGYLQGPRGLGPQPGHPP HPGAAGSAGEPRKWLPPRRGL WCSACA*GPPSTGPGEQRGPGD SG*FISASTSASRATSACRSAFIT SQTEPPTWPSLARPQSSGLARPP APGRTAAGRD**TLPPGK
20047	50415	A	20163	3	859	SLGGNKSRPTRRCCSGSRCRCR DKSAAVSGALWRGCRESPRAP PPAPQTIPRAWPSPTAVLTHPLL AGPSRWGSSCTGAAPKPPPGRG PLRGSPALPAAPGCGGCPGWGP KPLGPWRYPPAAAGSPDHCPPS GGGSRPGAPQGGNRCSRSARRT APPSCGCSEVGSL*WSPRSGPRP PGWFGWAGACGGSGGSFAASA ALAWEGPEQSQEALQPQSPQRP APAAAAAGAGPRLSSPRRRAW SSPG*/HGIPWPTHASAALPAAG HRGSFSGILP*RAGKRSAMLST
20048	50416	B	20164	179	438	
20049	50417	A	20165	1	930	MESPWRQWRLRKVARSGGGR LSNKRKLHLKKKKKGERGGGG AEREKAAAAVAPGCKAGAGN AKKFVQNGPGTKESSASQVPTG PSAAGLLEFARGPLQTLFAWVS AAVSAEPRIFMIRECCCLIVPLE VLSQRSTWPCEFLISDCCASNQ QDSMGVGPSEPGAGYNLLVRH FLSPSEKCSIRVGVARFSRVLPP PLLGISAARAAGGAARQAAQL REGSRCPRLTDIPHAPSTPPEQG HSAEGAAKEEPKRRSARLSAKP APAKVEAK/PKKAAAKDKSSD KQVQTKGKRGAKGKQAEVAN QETKEHLPAV
20050	50418	A	20166	199	419	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20051	50419	B	20167	969	1313	
20052	50420	C	20168	481	738	
20053	50421	B	20169	56	3476	
20054	50422	A	20170	1	2679	
20055	50423	A	20171	1	1467	
20056	50424	A	20172	208	379	NPCKKGVLIFQF*LKIHKRQFIC ADLEFVISE*CTRYPIVAFNWCK PSLLRRSTPVK
20057	50425	A	20173	1	921	
20058	50426	A	20174	197	355	
20059	50427	A	20175	1	3180	
20060	50428	A	20176	1	1309	
20061	50429	A	20177	1	2295	MFYNDVKKQQQMAALTKEKD QLSQSIVMYKSLFEASQQLLNE MKCQVEEARLKEAQLRNELKI HNIDIPTTQQVPHIEALLKRKLS EQEELKKKPRRSCTLPNYTKGS GDVLGKIAHLAQIEDDRAAMVI SWHLASDMDCVVTLTTDAARR IYDETQGRQQVLPLDSIYKKTL PDWKRSLPHFRNGKLYFKPIGD PVFARDLLTFPDNVEHCETVFG MLLGDTIILDNLDAANHYRKEV VKITHCPTLLTRDGDR
20062	50430	A	20178	3	2550	
20063	50431	A	20179	256	3680	NRGLLFCFLFLHLHLKEHERHL ATVYVFPILSCTIYRSVLLTSSQ TIIYTHVGDREAQAALKLGRWS HPRTPNAVGAPGPPEGAGGGD AVTSQSALLTFSRTRFASGAHA GAHPVLLRNEEEKGAPALVAPI FSAEGPTCSLWWTLRPASTAGL KLPAAASTRPSQRGLTADGGGP GGASVGTEEDGGGVGHRTVYL FDRREKESELGDRPLQVGERSD YAGFRAYETVKDGVTLYLLQS VNQLLLTATKERIDF
20064	50432	A	20180	8	267	RGEMPGERLKAEVFLPPSPLSPT QVVGPLHRVWS*IGNASSQRGE AQVRS*VSFSLRLEDSTPWIPGT RALRGCWLWRDFQTLQSG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20065	50433	A	20181	1	3692	MNPIREMQVSGIALKGTMKGW TELPKSPVWTQGNKGRNYFTN LALSLLFEDDTKLNPYAGGDAI RVRISVGPFKGERFTVPGLASEC GKNSFLRFPSNSRRKQLCGRVH GSFLWFSMMSQSMGGDNLSSL DTNEAEIEPENMREKFFRSLAR LLENKSNNTKIFSKAKYCQLIK EVKEAKAKAKKESVDYRRLAR FDVILVQGNEKLIEAVNGETDK IRYYLHSEDLFDILHNTHLSIGH GGRTRMEKELQAKYK
20066	50434	A	20182	24	131	PVHKRWS*NDECYRHCTV***Q PGSEENNPALENR
20067	50435	C	20183	99	281	
20068	50436	A	20184	1	4200	MVILKDFMKFEMNSEEGDFLR TCDFFFLRHLVAVKQLAHVKV DRFFPRRQSLAESRTAGIRLQTN VQKMVSSFTTSDRKQTSPSSYS VSFIPEFHFLGPPTHCPQTAVSQ CDLLFQLHSPAEALFPARTLPG GPRSPHLRVPAAPAPLQHDPRH TGPPLPPTANRGATPPLPLGPGA LERSGRLGELNSASSFRLRRDN PQSPAARPRGSHGLAGIEGERT LINYYCQERYFHHVLLVASEGI KRYGSDPVFRFY
20069	50437	A	20185	1	1464	
20070	50438	A	20186	335	855	RIASMPRLPPRTQGRGSARLPSR ARPGLHWHHRHTMLPPKPRRW R/RALGPAEAGMLEKLEFEDEG ECAPPAAGPALPRPGRPRTGTR GDPAPHLRRCPTASCVLRKPRG RGGNRGGDAGAGELGLRGPCD LPSQNFLCFLVDVLKNGLLALQ LFSSNPTASCAESLPMLRTPVI

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20071	50439	A	20187	2	1160	SARPAASPPAGERASQLMLIAV LLLPLRRRWRRALGPAEAGML EKLEFEDEAVEDSESGVYMRF MRSHKCYDIVPTSSKLVVFDTT LQVKKAFFALVANGVRAAPLW \ESKKQSFVGMLTITDFINILHR YYKSPMVQI/YMELEDHKNLET \WRELYLQ\ETFKPLVNISP\D\AS LFGWLYTSLIKNKIHRLPVIDPIS GNALYILTHKRILKFLQLFMSD MPKPAF\MKQNLDELGIGTYHN IAFIHPDTPIIKALNIFV/EKDRIS ALP/VLWDESGKSW*IFNSPNLN VN*ILACLEENIPNNLR*STVT\Q A\LQHRSQYFEGVVKCQLSWKF LETHRWTRIVRAEGPSGLVVV\ NEADSIVGIISLSDIL\QALIL\TP AGAKQKETETE
20072	50440	A	20188	58	205	
20073	50441	A	20189	347	1581	NPSPC/WAVFFQKDAITSKIQTF LSMLHLYN**/SSPSKENTRTVE KLYKCSVDIRKIRRFKKDGVLL RR*KPYVERNCRIFYQELGAR* D\AVASI\LERCPEAIV*SPTAVN TQRKLWQLVCKNEEELIKLIEQ FPESFFTIKDQENQKLNVQFFQ DVGTKKCGH\CRLLTAAPNCFS\ NPVEKNKQMV\EFFQESYLD\L GGSEANMKSFGLLKLFKPKPFY FV*ISPTAIKETLEFLQEPRFPPA LKFLQLPIPNSKGFLFQLCPKKY TE*YFLL*KCLLNAQIFMDP/VS N*VLKWPCPFILFLFPVLEERM QGLLREGISIAQIR\ETPMVLELT PQIVQYRIRKLNSSGYRIKDGHL ANLNGSKKEFEANFGKIQAKK ALQNLLLRSLNYYDELTVGEC GNRKGRGTNVNTTL
20074	50442	A	20190	3	455	
20075	50443	C	20191	72	218	
20076	50444	A	20192	3	452	LGILLVDDFVNVLSSLAVYAED SEPESDGEAGIEAVGSAAEEKG GLVSDAYGEDDFSRLGGDEDG YEEEEDENSRQSEDDDSETEKP EADDPKE\NSAQ*QRHPGLSKL MAQLVGLRGQKNHILNMIRDV TQQPQLSLAAHTPHTPFHLQ
20077	50445	A	20193	1	334	
20078	50446	A	20194	1	687	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20079	50447	A	20195	1	1280	RPGCGNKMAGKKNVLSSLAAY A*ISEPESDGEAGIEAVGSAAD EKGGLVSDAYGEDDFSRLGGD EDGYEEEEDENSRQSEDDDSET EKPEADDPKDNTEAEKRDPQEL VASFSERVRNMSPDEIKIPPEPP G\RCSNHLQDKIQKLYERKIKE GMDMNYIIQRKK\EFRNPSIYRE /RLIQFC\AIDELGTNYPKDMFD PHGWSEDSYYEALAKAQKIEM GQIGKRPKKERNQKFEFCDGAP KKGT/TRTNATSTTTTTCQAQL FADCFRRGKRQVGIRAIPSATKP KRTPPPKPPPNTLTTTATLPS/V VVTVTHPSASGSKDPPVISCCG APIVKERPKQVTLRGPPLGLER DRAAPVTHCPVGGAHFVYFRT GTYSPRCHLRGASVWHSRWKD RQHGSQALWTGSVHAPPGVCR LLKVPYSYLLASQKK
20080	50448	A	20196	1	542	MAYSAPEKSCTEGHESPH/HHT AGHSGWHGG*ALRQRGHSCPK EGTRGHPQTLAP/HHQCPQHAA GLPR/HNQLLHD/WFRHHHHRH WHHHHHHHQ*FPECQPSTSHQ ANPHHRPDLHDRQAPDSGYEG VSPKRVAEANFSLGSAPQAAQ GRSHGQSPGVHGFFSHGSPAAS SDIMKRLPPPGLF
20081	50449	A	20197	45	171	RKTRERIGHDVICNLL*C**SS/C GCGLS/CICS*IRHSKSSRKA
20082	50450	A	20198	277	467	GLGPHDYLYSILSIERSCCC*CC CCCCRRRRCCCCC/CV*GCSRFL CSIAESTPSGALRRLRGGR
20083	50451	A	20199	1	1080	
20084	50452	A	20200	34	119	
20085	50453	A	20201	1798	1894	
20086	50454	A	20202	363	778	GLGPHDYLYSILSIERSCCC*CC CCCCRRRRCCCCC/CV*GCSRFL CSIAESTPSGALRRLRGGRSGGS GGCCSPGGCREGGRGNTKPAT RCEVICGGGSGGGGARPAAPPG GPDASRVCWFSLNTSIVFFSCPF
20087	50455	A	20203	1	360	
20088	50456	B	20204	1	3681	
20089	50457	A	20205	1	293	
20090	50458	B	20206	38	282	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20091	50459	A	20207	1	1124	VDTVKRLLIKKLPPVLAIQLKRF DYDWERECAIKFNDYFEFPREL DMEPYTVAGVAKLEGDNVNPE SQLIQQSEQSESETAGSTKYRLV GVLVHSGQASGGHYYSYIIQRN GGDGERNRWYKFDDGDVTEC KMDDDEEMKNQCFGGEYMGE VF\DHMMKRMSYRRQKRWWN AYILFYERMDTIDQDDELIRYIS ELAITTRPHQIIMPSAIERSVRKQ NVQFMHNRMQYSMEYFQFMK KLLTCNGVYLNPPPGVAEKTQL LKLSVPATFMLVSLDEGPGPPIK YQYAELGKLYSVVSQLIRCCNV SSRMQSSINDAETAFNKIQHRF MLKILNKQGIEETYIKITRAIYD KPTANIILNGQMLEALPLRNRT
20092	50460	A	20208	1	1053	
20093	50461	A	20209	1	7785	MTATTRGSPVGGNDNQGQAPD GQSQPPLQQNQTSSPDSSNENS PATPPDEQGQGDAPPQLEDEEP AFPHTDLAKLDDMINRPRWVV PVLPKGELEVLLEAAIDLSKKG LDVKSEACQRFFRDGLTISFTKI LTDEAVSGWKFEIHVSLAFDFK GSDLHSDACEWEERCIINNTHR LVELWCGPSCPQDWF\PLLELL AMALNPHCKFHIYNGTRPCESV SSSVQLPEDELFARSPDPRSPKG WLVDLLNKFGTLN
20094	50462	A	20210	1201	9141	ADKIAKICPVSSMTATTRGSPV GGNDNQGQAPDGQSQPPLQQN QTSSPDSSNENSPATPPDEQGQ GDAPPQLEDEEPAFPHTDLAKL DDMINRPRWVVPVLPKGELEV KLEANIDLSKKGLDVKSEACQR FFRDGLTISFTKILTDEAVSGWK FEIHRCLVELCVAKLSQDWFPL LELLAMALNPHCKFHIYNGTRP CESVSSSVQLPEDELFARSPDPR SPKGWLVDLLNKFGTLNGFQIL HDRFINGSALNVQ
20095	50463	A	20211	2	710	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20096	50464	A	20212	1	1703	RPLDVGGPAAGTPGVLSRPCPS TAALAPKPFCAAPRPQPDAPAC AGATGGSCADFDSGVDFVRRR SSGLWGPQPPLFPVKNYTEDPV AFKDVAVNFTQEEWALLDISQ KNLYREVMLETFWNLTSIGKK WKDQNIEYEYQNPRRNFRSVT EEKVNEIKEDSHCGETFTPVPD DRLNFQKKKASPEVKSCDSFVC EVGLGNSSSNMNIRGDTGHKA CECQEYGPKPWKSQQPKKAFR YHPSLRTQERDHTGKKPYACK ECGKNIIYHSSIQRHMVVHSGD GPYKCKFCGKAFHCLSLYLIHE RTHTGEKPYECKQCGKSFSYSA THRIHERTHIGEKPYECQECGK AFHSPRSCHRHERSHMGEKAY QCKECGKAFMCPRYVRRHERT HSRKKLYECKQCGKALSSLTSF QTHIR\MHSGERPYECKTCGKG FYSAKSFQRHEKTHSGEKPYKC KQCGKAFTRSGSFRYHERTHTG EKPYECKQCGKAFRSAPNLQL HGRTHTGEKPYQCKECGKAFR SASQLRJHRRIHTGEKPYECKK CGKAFRYVQNFRFHERTQTHK
20097	50465	A	20213	3	2413	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20098	50466	A	20214	1	2124	MGKNTPMIQLSPPGPFHNSEYR FPVLSVSAFLLYTCEMFQDPVA FEDVAVIFTQEEWALLDISQRK LYREVMLETFRNLTSLGKRWK DQNIEYEHQNPRRNFRSLIEEK VNEIKDDSHCGETFTPVPDDRL NFQEKKASPEVKSCESFVCGEV GLGNSSFNMNIRGDIGHKAYEY QEYGPKPCKCQQPKKAFRYRPS FRTQERDHTGEKPNACKVCGK TFISHSSVRRHMVMHSGDGPY KCKFCGKAFHCLRLYLIHERIH TGEKPCECKQCGKSFSYSATHR IHKRTHTGEKPYEYQECGKAFH SPRSYRRHERIHMGEKAYQCKE CGKAFTCPRYVRIHERTHSRKN LYECKQCGKALSSLTSFQTHVR LHSGERPYECKICGKDFCSVNS FQRHEKIHSGEKPYKCKQCGK ALPHSSSLRYHVRTHTGEKPYE CKQCGKATHNGEKPYACKECG KPFGSAQNLRIHERTQTHIMHS VERPYKCKICGRGFYSAKSFQI HEKSYTGEKPYECKQCGKAFV SFTSFRYHERTHTGENPYECKQ FGKAFRSVKNLRFHKRTHTGE K/PL*IHEKTHTGRKHYECKQC GKAFTSSSSFQYHERTH/S/GEK PYQCKQCAKAFISSTSFQYHER THMGEKPYECMPSGKAFISS\SS LQYHERTHTGEKPYEYKQCGK AFRSASHLQMHGRTHTGEKPY
20099	50467	A	20215	23	265	
20100	50468	A	20216	40	470	
20101	50469	A	20217	235	392	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20102	50470	A	20218	7	1439	EGADKMATSVGHRCLGLLHGV APWRSSLHPCEMTALSQSLQPL RKLPFRAFRTDARKIHTAPART MFLLRPLPILLVTGGGYAGYRQ YEKYRERELEKLGLEIPPKLAW SLGSVALYKSVPTRLL\SRAWG RLNQVGAAHTGLRRPRFTSL\YI WTFGVNMKEARVEDLHHYRN LSEFFRRKLKPQARPVCGLHS/V GEA*PFPPAGNRTFSCLPSTAPL VSSVSGRGRMTRGGGGCLLGG GDPALPGSKPLLPFQISPSDGRIL NFGQVKNCEVEQVKGVTYSLE SFLGPRMCTEDLPFPPAASCDSF KNQLVTREGNELYHCVIYLAPG DYHCFHSPTDWTVSHRRHFPGS LMSVNPGMARWIKELFCHNER VVLTGDWKHGFFSLTAVGAT\ NWGSTRIYFDRDRNTNNPRHSK GSYNDFSFVTHTNREGVPMRK GEHLGEFNLGSTIVLIFEAPKDF NFQLKTGQKIRFGEALGSL
20103	50471	A	20219	170	1144	ARTRRLAPSPGCRRGPAVKKM RHEELLTKTFQGPAVVCGTPTS HVYMFKNGSGDSGDSSEEESH RVVLRPRVKERHKSGVHQPPQ AGAGDVVLLQRELAQEDSLNK LALQYGCKHSE*LTMA/NVADI KKVNNFIREQDLYALKSVKIPV RNHGILMETHKELKPLLSPSSET TVTVELPEADRAGAGTGAQAG QLMGFFKGIDQDIERAVQSEIFL HESYCMDTSHQPLLPAPPKTPM DGADCGIQWWNAVFIMLLIGIV LPVFYLVYFKIQASGETPNSLNT TVIPNGSMAMGTVPGQAPRLA VAVPAVTSADSQFSQTTQAGS
20104	50472	A	20220	1	626	RYSSTLTRPWTQTPRTRASPHS\ PVAGALTARPSPPRPTKPSRAG VHASRRPPQDLGPIGKGSAKTK GPRHQRKHHESITPPSRSPTKEA PPGLNDDAQIPASQESVAPLWIP VTAP*AHRVLSSCEFGAAFESA GEEEGEGEVSASQAAVQA\GTQ TRR*GATSAPCGPVPEGASVPA L*AAGAAGRAEAERPPCVPAQ AVGLSGQPLS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20105	50473	A	20221	2492	4619	WHSWRQQGWGAHLGSSATGP GC*QGRPTCVMRPAGT/TRPGE APIGSGTGAVEMPAREPGDEKP PAPFP*QRHFVPRAHLLFGTAL RSLPELMRRAVRNPRHHLSAEE SLLFSLPGSPWKGWSSWNGQA PPLAPPAQGPLLPVPLSAGPGV AGERTVPSSPRWWRPHLFLAPT APSPPPCPTVSAPGHLLGVAQK PDCHPPASQRPRRHPLPFLPGEA FAE/SAANS*ISSISASFTFS*SSS WSLD\STKSSLPPLHLPTLTSRV PGKFSALLSQFSASFSSHGLPSE SVAIGTCST/PGERAHSRQTCGP GSSAQS*GQEEGQCPQCRDSAG TCGRPRCSRHPAGHAGSEPRPL QRRSLHCSHTG*GAGIGHKART CGRKAPPRCPSETGHHSGVGY* PWRQSQQPAARGRARCGRPCP GACPAMAPQTQSEEGRRAPR/T NPAVPSEPARP/STAGPRAGASV PPSPGPRGPAGPGAPS\AGRRRR APGATACSGGAVESG*PSL/GSA LSAQVAPEAARAPA*GPGQAA GAREEGPAWPCRSPP\GPGPSQC AALPQK/GSALRSGGRRTLGPL LSHPSFKILLAGSGGVLDNSTSS ERSRATRSSICRPVVSESWTNN NGGDTGG\SSCDFYSPGPADGL SQGHSSDHTNLLLVLSSQKRHF PA*ALVQPHPAPSPTGTEPWPP AGPRTVPRPPSASSVAPSCWWV
20106	50474	A	20222	103	538	PQLSLPLLSIRDRRRPSKCANLT LTLTVAARHGLQSLGKVGISRR MPPPANLPSLKAENKGNDPNV NIVPKDGTGWASKQEQHEEEK TPEVPPAQPKPGVAAPPEVAPA PKSWASNKQGGQGDGIQVK*Q FQQEFPSLQAAGDQK
20107	50475	C	20223	1	569	
20108	50476	A	20224	1	1095	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20109	50477	A	20225	1	1970	MWKGFTILDSFKNISDSWEDVR ISTLTGVWKKLIVTLMDDLEEF KTSVEEITLTQRKLFFVMESPV GPISPPQPPSVSAWNKPLTSFGS APSSEGAKNGQESGLEIGTDTIQ FGAPASNGNENEVVPVLSEKSA DKIPEPKEQRQKQPRAGPIKAQ KLPDLSPVDNK\EHKPGPIGKER SLKNRKVKDAQQVEPEGGQEKP SPATVRSTDPVTTKETKAVSEM STEIGTMISVSSAEYGTNAKESV TDYTTPSSSLPNTVATNNTKME DTLVNNMESARKAWENSPNVR EKGSPVTSTAPPIATGVSSSASG PSTANYNSFSSASMPQIPVASVT PTASLSGAGTYTTSSLSTKSTTT SDPPNICKVKPQQLQTSSLPSAS HFSQLSCMPSLIAQQQQNPQVY VSQSAA/ATLTTACLS*WSTAQI PAFYMDTSHLFNTQHARLAPPS LAQQQGFQPGLS\RSQPAFMQS SLSQPSVVLSGTAIHNFPTVQH QELAKAQSGLAFQQTSNTQPIPI LYEHQLGQASGLGGSQLIDTHL LQVTVPLPASQLSLPNFGSTGQ PLIALPQTLQPPLQHTTPQAQA QSLSRPAQVSQPFRGLIPAGTQ HSMIATTGKMSEMELKAFGSGI DIKPGTPPIAGRSTTPTSSP\SGL LLQVRTASPAK
20110	50478	A	20226	260	8485	VSTEMSEKSGQSTKAKDGKKY ATLS\LFNTSKGKSLETQKTTVA ARHGLQSLGKVGISR\RMPPPC* PPKFLKPE*QRANDPNVNIVPK DGTGWASKQEQHEEEK\TPEVP PA\QPKPGVAAPPEVAPAPKSW ASNKQGGQGDGIQVNSQFQQE FPSLQAAVDQEKK\EKETNDDN YGP*PSLRPPNVACWRDGGKA AGSPSSSDQDEKLPGQDESTAG TSEQNDILKVVEKRIACGPPQA KLNGQQAALASQYR
20111	50479	A	20227	330	485	RQGDRVSLCCLGRS*TPGLK*F SHLDLLNCWDYRCETVHLAEI AQVSEKQI
20112	50480	C	20228	1189	1413	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20113	50481	A	20229	1	407	MPFSLADCDSQHCLLFAVVDL GTAKATSCMSDTFDFYSSSGNS ANLKEGGKSPPAGPGKGPRGA QKRKYSGPWNRKESCKKHEGV KGAEGRGGTVASVRES/REPRF KMAAFSMHPC*RLSRHRGHLA QRCFCFCR
20114	50482	A	20230	1	408	HMDLAQPSQPVDELELSVLERQ PEENTPLNGADEVFPSLDEEVPP AEANKESPWSSCNKNVVGRCK LWMIITSIFLGVITVIIGLCLAA VTYVDEDENEILELSSNKTFFIM LKIPEECVAEEELPHLLTERL**S L**HLGKWR**SST/GLHLPTTF LLQELQGLSLLASAGGTSSSKE GKTSSAPLRGVFSSGCRSSTESS SSSTGCEGWARSM
20115	50483	C	20231	144	383	
20116	50484	A	20232	1	530	AKDSESRRMLRGYNPQQMSEG HRQKSEFYNRTASESNVYLNSF HYPDHSYKDQAFDTLSLDSSDS METSISACSPDNIS\SASTSNIARI EEMERLLKQAHAEKTRLLESRE REMEAKKRALEEEKRRREILEK RLQEETSQRQKLIEKEVKIRERQ RAQARPLTRYLPVRKEDFDL
20117	50485	B	20233	10	543	
20118	50486	A	20234	370	556	
20119	50487	A	20235	3	3160	TELQQLGQKTADGSPGLKRALI FALNFHSSPPGKDMAAVQRTL MALGSVAVTKDDGCYRGEPS WFHRKAQQNRRGFSEEQLRQG QNVIGLQMGSNKGASQAGMTG LSDPTPWTAHLGMYVQGNAKF VSPVRRIVVHEYYNSQTFDYDI ALLQLSIAWPETLKQLIQPICIPP TGQRVRSGEKCWVTGWGRRH EADNKGSLVLQQAEVELIDQTL CVSTYGIITSRMLCAGIMSGKR DACKKRKLGTERPGTQAAP
20120	50488	A	20236	231	873	KKFRALGSVGPGFRASGVQVA DEV\CRIF\YDMKVR\KCS\TPEE DQDKERSAVIF\CLSADKKCIIV E\EG\KEILVGDVGWNP*TDPF\R HFVG\MLP*KKIVRYAFVMDGK LLETKGFQKRKSLMFFFV/WAP EL\APLKK*K*SYCKLQGMAFK KNFQGIKHECQA\NGPEDLNRA\ CIAEKL\GGSLIVAFEGCPCVDH HSVPQIEKLPMFNCYPLAI

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20121	50489	A	20237	915	1255	GHGQKPAGKKKKILAVRSGSEP AGGFQGY/RGGHGTAS/GSPGD DDSPGALWEQSPGPL*AWPGA VSEEPMVCAEPVQEQSGPQLPP PRHSRSPSGDSGQPGVPAERRRI MGMADA
20122	50490	A	20238	3	227	LLMDTF/FQIVIYL/GETIAQWR KAGYQDMPEYENFKHLLQAPL DDAQEILQARFPMPVKLRIQPG NATVSDCVQNV
20123	50491	A	20239	1	642	RRDTIARNWANVQSQVRHIEQ AFDQEAAA\VLMARLG\VFEPK SKEGPDVLRWLDRQLIRLCQKF GQYTKEDPTSFRLSDSFSLYPQS MFHLRRSPFLQVFNNSPDESSY YRHHFARQDLTQSLIMIQPILYS YSFHGPPEPVLLDSS\RFPMPRYI NTEHGGSQARFLLSKVNPSQTH NNLYAWGQETGAPILTDDVSL QVFMDHLKKLAVSSAC
20124	50492	B	20240	20	277	
20125	50493	A	20241	1	3030	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20126	50494	A	20242	1	2677	MAEVKVKVQPPDADPVEIENRI IELCHQFPHGITDQVIQNEMPHI EAQQRAVAINRLLSMGQLDLL RSNTGLLYRIKDSQNAGKMKG SDNQEKLVYQIIEDAGNKGIWS RDIRYKSNLPLTEINKILKNLES KKLIKAVKSVALGIPAGCSVCP KCGASNHLSARFCGSCGICVKS LVKLSLDRSLALAAEEPRPFSES LNIPLPRSDVGTKRDIGTQTVGL FYPSGKLLAKKEQELASQKQR QEKMSDHKPLLTAISPGRENIG ENLQVIGLVKNFLSNIPQAPAT QAKMGKWDPRQRGAQSPLIFL YVVDTCLEEDDLQALKESLQM SLSLLPP\DALVGLITFGRMVQV HELSCEGISKSYVFRGTKDLTA KQIQDMLGLTKPAMPMQQARP \AQPQEHPFASSRFLQP\VHKID MNLTDLLGELQRDPWPVTQGK RPLRSTGVALSI\AVGLLEGTFP NTG\ARIMLFTGGPPTQGPGMV VGDELKIPI\RSWHDI\EKDNARF \MKKATKHYEMLANRTAANGH CIDIYACALDQTGLLEMKCCAN LTGGYMVMGDSFNTSLFKQTF QRIFTKDFNGDFRMAFGATLDV KRVQVGERGREAKNKLWTVH AHSSWRALNTGLRSFDFIPGTV REPVKILGRRLTSDLQIRNSPLE AAVQGGVSKTVSTVSLAHAMR AHPHLLMEDLRILVIDLDPQSS
20127	50495	B	20243	453	3318	
20128	50496	A	20244	2	1367	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20129	50497	A	20245	1	1459	MLEGKYGPPPGSFQTRRTALAR SHTNTSPSTSPAANRLNALGIGE RDASPSWLGETQDQVKRQPGL SGSRKIPRCAMTYGSLGQQAA QAAGVHAPNVFVASLLCQFLQ FVYRNSMGWTGGADFSYSCQE GETKELWSSGHHLKACRAVAF SEDGQSEYWGRQPAMWWKGA VSSTMTLGTFSPELITVSKDKAI HVLDVEQGQLERRVSKAHGAP INSLLLVDENVLATGDDTGGIC LWDQRKEGPLMDMRQHEEYIA DMALDPAKKLLLTA\TYCSTLY SGDGCLGIFNIKRRRFELLSEPQ SGDLTSVTLMKVQLVMWGKK VACGSSEGTIYLFNWNGFGATS DRFALRAESIDCMVPVTESLLC TGSTDGVIRAVNILPNRVVGSV GQHIGEPVEELALSHCGRFLAS SGHDQRLKFWDMAQLASCGG G*LPSAQKKGRTTAGSEQQDLE HR*LLRRTEARGRSLHGSQKKR RRLGMTVTEGMN
20130	50498	A	20246	221	847	RHIFSFFSGHVLAVSLGKFIFEST LFPSERAARRRRPVQQWPRFK ARDLRGKKKEELLKQLD\DLKV EAV/SQLRVAKVTGR\AASKLS KIR\VVRKSIARVLTVI\NQTQKE NLRKFYKGKKYKPL\DLR\P*GR HRAMRPPASNQARRENLEGPK EAGSGKGAAFTRCGK*RGSRA LRGRLCQ*KHKENLKTKKQQR KERLYPLRKYAVKA
20131	50499	A	20247	1	415	FFFFFECG*SFTNSFSVTIHRRIH NGEKSYECSDCGKSFNVLSSVK KHMRTHTGKKPYECNYCGKSF TSNSYLSVHTRMHN/TANVNSI TVGKAFIDLSCLR*HEQTLTRC MNHLLLCNKLPPKILWLQTKTL VISKFL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20132	50500	A	20248	196	1768	RRSVLLPGCPVAVGVTGWRLSS CPQLPLCLPCSQPLSEKDTQRA ESWLMSS*KAG/YKGLVTFEDV AVEFTQEEWALLDPAQRTLYR DVMLENCRNLASLGNQVDKPR LISQLEQEDKVMTEERGILSGTC PDVENPFKAKGLTPKLHVFRKE QSRNMKMERNHLGATLNECN QCFKVFSTKSSLTRHRKYSILGE RPYGCSECGKSYSSRSYLAVHK RIHNGVKPYECNNCGKTFSSRS YLTVHKRIHNGEKPYDCSYCG KTFSNS*YLRPHLRIHTGEKPYK CNQCFREFRNQSIFTRHKRVHT GEGHYVCNQCGKAFGTRSSLSS HYSIHTGEYPYECHDCGRTFRR RSNLTQHIRTHTGEKPYTCNEC GKSFTNSFCLTIHRRIHNGEKSY ECSDCGKSFNVLSSVKKHMRT HTGKKPYECNYCGKSFTIGQGD GFEIVLPPPQLQQLIKAFFLGNT HCLSDRLSVQCIHYSIRYLHLNI HYLHYSIHYLHYSICYLHYSIM DPPQQSPHPLQHPLQNPLQ
20133	50501	A	20249	2	408	
20134	50502	A	20250	1	280	
20135	50503	A	20251	2	469	RGIREGEEFDVDLAGMEVAVG GWGRGLWLHRHQAGIRGQSLG WRCRPWVGAGGVQAASERPD LAGSIMGPEVGALRRASPVIVIQ SQAGAFLSSNTTCQQFRDPGFR GRYPASPHTLSLPPETAHL*LLL CLPAAGVLPHTWPLLDRQGWH RGHAR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20136	50504	A	20252	1	1762	FRMAAPLVLVLVVAVTVRAAL FRSSLAEFISERVEVVSPLSSWK RVVEGLSLLDLGVSPYSGAVFH ETPLIIYLFHFLIDYAELVFMITD ALTAIALYFAIQDFNKVVFKKQ KLLLELDQYAPDVAELIRTPME MRYIPLKAALFYLLNPYTILSCV AKSTCAINNTLIAFFILTTIKGKA LKGEYKGSAFLSAIFLALATYQ SLYPLTLFVPGLLYLLQRQYIPV KMKSKAFWIFSWEYAMMYVG SLVVIICLSFFLLSSWDFIPAVYG FILSVPDLTPNIG\LFWYFFAEM FEHFSLFFVCVFQINVFFYTIPLA IKLKEHPIFFMFIQIAVIAIFKSYP TVGDVALYMAFFPVWNHLYRF LRNIFVLTCIIIVCSLLFPVLWHL WIYAGSANSNFF*GITLTFNVG QLPHELFIMVPEGGGPGALMA AIERNVDRAVPGGSAERDPIER STLHILLISDYFYAFLRREYYLT HGLYLTPQGIAPEAMLVLQSRP GWHRASWTLRGLVGPEAGPKL SSPELPAGECLGRRGSSPRVTSS LVPKRDPWLTDSKAYGEELGA PQLGPPPCGSAHQGAPSQTGRR
20137	50505	B	20253	102	406	
20138	50506	B	20254	200	408	
20139	50507	B	20255	347	458	
20140	50508	A	20256	2	430	
20141	50509	A	20257	3	567	
20142	50510	B	20258	1	1317	
20143	50511	A	20259	928	2067	
20144	50512	A	20260	2	4498	VHELQSLSEMLKPEVLSPTVKG KLLTGIKSPRSYTPKPNPVTHVI STGIQKIWIGATVGSTEVSVAV TPDGYADAVRGDRFMMPAERR LPLSFVLDVLEGRAQHPGVLYV QKQCSNLPSELPQLLPDLESHV PWASEALVHKHHYENLYCVVS GEKHFLFHPPSDRPFIPYELYTP ATYQLTEEGTFKVVDEEAMEK VSVLFLGSREGEGQKPGSEEQA QKIWGVEAAVQRLGMLEAGIL PQEGRFQALAEIADI

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20145	50513	A	20261	3	3137	DTPAWHGDANRTKAALEAARS DYLEFPPAARELCVPLAVPYLD KPPTPLHFYRDWVCPNRPCIIRN ALQHWPALQKWSLPYFRATVG STKVSV\AVTPDGYADAVERGI RF/M*LPVERRLPLSFVLDVLEG RAQHPGVLYVQKQCSNLPSELP QLLPDLESHVPWASEALGKMP DAVNFWLGEAV*VTFLHKDHY ENLYCVGSGEKHFLFHPPSDRP FIPYELYTPATYQLTEEGTFKVV DEEAMEKAEVSRTC
20146	50514	A	20262	164	1236	AQSRRSRDRGQAFSNHHAAEHI TCTPGSGSGSRVSSGQAARRRL SGRAGLWAAVTNPPPHPTWLE VSRSAAATARAALCRRSACLLP RTPHLSAMISASRAAAARL/VG AAASRGLRAARHQIRSNQGTV VGIDLGTTNSCVAVMKKNVPF KIVRASNGDAW/VEAHGKLYSP SQIGAFV/LMKMKETAD**LFLS SEPPQPGQRAGFLQPSCCGAYY LYPWLRERQSSILWSGGAAAPQ RKSGPLGRSDQPPPSPHVVGGF QKRCRHRSRSSLPSERLFAASYS SFIRHDKCQPSCSSPSRGAAASR GLRAARHQIRSNQGTVVGIDLG TTNSCVAVMKKNVPFKIVRAS NGDAWVRLMGNCILRVRLEHL CDEDERDCRLIVALPEGMEEPE FDYQNDMGNSQDLERRRGCAA EPWEEGVGQSLALPLVSLCLKC RWYRSPCTQGQHPATFSGPAEG VISERSMLEHWHEEINQCKAYN EDVFSTMRTNPARISSEAMAPA DIIDHSSQRPDFTSGKMLADEF GTASNIKSRVNAFQSWEPLHLY NKDSNL
20147	50515	A	20263	216	728	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20148	50516	A	20264	1	2519	MAPSSRSGAGNTSTPGGCARAR APPGNAGVHSGTQTGAVRDTA FISPSSPGLFLSSEPPQPGQRAGF LQPSCCGAYYLYPWLRERQSSI LWSGGAAAPQRKSGPLGRSDQ PPPSPHVVGGFQKRCRHRIAQL FAVGALVCCLVLLHLSAMISAS RAAAARLVGAAASRGPT\AAR HQDSW\NGLSHEAFRLVSRRDY \AS\EAIKGAVVGI\DLGTTNSCV AVMEGNQAK\VLENAEGAKTT PSVVAFTADGERLGGMPAKRQ AVTNPNNTFYATKRLIGRRYDD PEVQKDIKNVPFKIVRASNGDA WVEAHGKLYSPSQIGAFVLMK MKETAENYLGHTAKNAVITVP AYFNDSQRQATKDAGQISGLN VLRVINEPTAAALAYGLDKSED KVIAVYDLGGGTFDISILEIQKG VFEVKSTNGDTFLGGEDFDQAL LRHIVKEFKRETGVDLTKDNM ALQRVREAAEKAKCELSSSVQT DINLPYLTMDSSGPKHLNMKLT RAQFEGIVTDLIRRTIAPCQKA MQDAEVSKSDIGEVILVGGMT RMPKVQQTVQDLFGRAPSKAV NPDEAVAIGAAIQGGVLAGDV TDVLLLDVTPLSLGIET\HGAVF SKLINRKTNIPTKKSQVFSTAAD GQTQVEIKVCQGEREMAGDNK LLGQFTLIGIPPAPRGVPQIEVTF DIDANGIVHVSAKDKGTGREQ
20149	50517	A	20265	1	168	LERERRKRSRKELLNFYAWQH RESKMEHLR/QLRKKFEEDKQR IELLRAQRKFRPY

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20150	50518	A	20266	3	1085	ARAGAEPQLPATPALPGGKMV ARSLAGLSSG*PGHPSPPISFPAI PIKFSEKQQASHYLYVRAHGIQ QGTKWREALGWP/SRMLTLGF P/PPCS/EESLSCLQSTCGLVQSV ELKFPDLPHPCTSCLAFSVPC*S SRTVSAGHLQGLPRLPSCFPTE GAPSPGLGAGSPGALLFRDLVP DVGRSPQPLTSLSLQGFQVAYV VFQKPSGVSAALAVGPKCQA* GSPVSLAPFSSEWISDYADSVPD PGWRLREVPGAHRTMGSPSLQ EEAKAKEEEGVPDEEGWVKVT RRGRRPVLPRTEAASLRVLERE RRKRSRK\ELL\NFYAWQHSRE/ SKMEHS*GKCARSFEEDKQRIR ACCGPKRKIPDRN
20151	50519	A	20267	2	334	SLQVQPFASLISKAPLSTPRLLIN KEKAGQSDPFLGMIMGLGGGM DFDSKKA/YAELLGWKKELEDL VRREHASIDAQSGAGVPNPSTS ASPKKSPPPAKDEARTTEREKP Q
20152	50520	A	20268	124	407	QSDPFLGMIMGLGGGMDFDSK KAY/RVRPRRGLGQPGMDRVR WERGHEGR*EEQAGASPPGNS DLLLHRRDVAWLGECDQGCLA LAELLGWKVRS
20153	50521	A	20269	193	458	
20154	50522	A	20270	55	1165	RDRAVGDSLKGFSTAPMAEPD PSHPLETQAGKVQEAQDSDSDS EGGAAGGEADMDFLRNLFSQT LSLG\SQKERLLDELTLEGVA\R YMQSERCSQSSSCLVGAGISTS AGIPRLFASPSTGLLLNNLEK*P SFPNPEAIF*DSAIFKKH\PEPFFA LAK\EL\YPGAVSRPTICSIISCGL LERDKGGLLLR/CVKRREH*VT WERIAG\LEQEDLVEAHGTFYT SHCVSASCRHEYPLSWMKEKIF SEVTPKCEDC\QSLVKPD\IVFFG ESLGARFFSCYCSSDFLKV\DLL L\VMGTSL\RDVAWLGECDQGC LALAELLGWKKELEDLVRREH ASIDAQSGAGVPNPSTSASPKK SPPPAKDEARTTEREKPQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20155	50523	A	20271	3	357	FGFNGCSKRIIKLQELSDLEERE NEDSMVPLPKQSLKFFCALEVV LPSCDCRSPGIGLVEEPMDKVE EGPLSFLMKRKTAQKLAIQKAL SDAFQKLLIVVLG/QDCLDHP*S TSVSVSK
20156	50524	A	20272	696	1123	IPLKMMNFLQSLKSPQLSHQLR L*LPQEVEPSLTQQNFPAQTP/V PPMEAEPSPNQQEATVQASEPP KNIELSSQQMVPENIFPPTMENS NQLPEPPTEVVAQLPPRYEVTIP TQGQDQAQLSTLASVTLQPLDL GFIITPESTTEIELSPTMQETPTQ PPKEFVPQPPV/LSRESSEETGPL PVQQETSAESPEPTKDENPSPIQ *EAAFSEISSQGSSWHQT
20157	50525	A	20273	1	727	GIPAADR\EASLELIKLDISRTFP NLCIFQQGGPYHDMLHSILGAY TCYRPDVGYVQGMSFIAAVLIL NLDTADAFIAFSNLLNKPCQMA FFRVDHGLMLTYFAAFEVFFEE NLPKLFAHFKKNNLTPDIYLID WIFTLYSKSLPLDLACRIWDVF CRDGEEFLFRTALGILKLFEDIL TKMDFIHMAQFLTRLPEDLPAE ELFASIATIQMQSRNKKWAQVL TALQKDSREMEKGSPSLRH
20158	50526	A	20274	3	435	CGGIPKMEESAEYEAARHKRE KRMENINLAGSKRGKEDGKDS EFAAIENLPGFELLSDREKVLCS SLNLSPARYVTVKTIIIKDHLQK RQGIP/CQKPPS*LPGQSPKEKD FEFPHRKRLDLQGRVLKLRRFE SQGDAQTVCQPK
20159	50527	A	20275	46	513	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20160	50528	A	20276	3	1084	NQEWKRSPPITVAKATQGAYL NILKDTLRAQKEQKEGKEEVIH KGAKLHPNGYRMAQGSETLVA RGGPCRSVEPSAASPQELRGW WEAQALKRWGLMGGVWVME VDPSWLGAISAIVSSSASRLLKS VWHIPCPHFLLLRPQLKEAQRR KKQLEERCRVEESIGNAVLTW NNEILPNWETMWCSRKVRDLW WQGIPPSVRGKVWSLAIGNELN ITHELFDICLARAKERWRSLSTG GSEVENEGLCVAVCAQQGHVG VMGFGSDEPSAVSPCEKGKSLA AWVLIFVDFRVGLQKSFQKRK ERESTKLQQLWSWCLMLTYFA AFEVFFEENLPKLFAHFKKNNL TPDIYLID/W*FRLLVGC
20161	50529	A	20277	60	556	EDSEMAPPAPGPASGGFGEVYE LFDVKNAFYIGSYQQCINEAQR VKLSSPERDVERDVFLYRAYL\ RRDSIVAELDREMSRSVDVTNT TFLLMAASIYLHDQNPDAALRA LHQGDSLECTAMTVQILLKLDR LDLARKELKRMQDLDEDATLT QLATAWVSLATGG
20162	50530	A	20278	1	628	FFYKSVLAQKEVRCVLDE/ISPL GPPELKPVRMFADL/LPHESRR DSSVPELAEKMSRSVDVPTPPS LLMAASIYLHDQNPDAALRAL HQGDSLECTAMTMQDAYYIFQ EMADKCSPTLLLLNGQAACHM AQGRWEAAEGLLQEALDKDSG YPETLVNLIVLSQHLGKPPEVT NRYLSQLKDAHRSHPFIKEYQA KENDFDRLVLQYAPSA
20163	50531	A	20279	1	884	RKFGVVLDEIKPSSAPELQAVR\ MFADYLAHESRRDSIVAELDRE MSRSVDVTNTTFLLMAASIYLH DQNPDAALRALHQGDSL\ECTA MTVQILLK\LDRL\DLARKELKR MQDL\DEDATLTQLATAW\VSL \ATGGEKLQDAYYIFQEMADKC SPTLLLLNGQAACHMAQGRWE AAEGLLQEALDKPPHGCSCERK LVSPFMVETEAQKSPVCKKVPC HGPPWAGRALGASSLDSGYPE TLVNLIVLSQHLGKPPEVTNRY LSQLKDAHRSHPFIKEYQAKEN DFDRLVLQYAPSA
20164	50532	B	20280	512	903	
20165	50533	A	20281	18	413	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20166	50534	A	20282	1	1195	MKHPNINSALQAPHPFVPGRPH LVAGVAPPALSNHPQARATAA AGKPHPRCAEAAGIGLACTAPG SHWLKMGELPLDINIQEPRWD QSTFLGRAP\HFFTVTDPRNLLL SGAQLEASRNIVQNYRAGVVTP GITEDQLWRAKYVYDSAFHPD TGEKVVLIGRMSAQVPMNMTI TGCMLTFYRQGSKDEGHCRRG RSECLCSLRKTPTVVFWQWVN QSFNAIVNYSNRRW*HFPSLVR QLGT\AYVSAT\TGAVATALGL KSLTKHLPPLVGRFVPFAAVAA ANCINIPLMRQRELQVGIPVAD EAGQRLGYSVTAAKQGIFQVVI SRICMAIPAMAIPPLIMDTLEKK DFLKRRPWLGAPLQVGLVGFC SIHISNLEPELRAQIHEQNPSVE VVYYNKGL
20167	50535	B	20283	24	51	
20168	50536	C	20284	1	1182	
20169	50537	B	20285	1	372	
20170	50538	A	20286	1	4610	ELAQNHSRPAPASAPGGGGGG DPNMATARTFGPEREAEPAKE ARVVGSELVDTYTVYIIQVTDG SHEWTVKHRYSDFHDLHEKLV AERKIDKNLLPPKKIIGKNSRSL VEKREKDLEVYLQKLLAAFPG VTPRVLAHFLHFHF\YET*VIHA A\LAEELFEKGEQLLGAGEVFAI GPLQLYAVTEQLQQGKPTCAS GDAKTDLGHIL\DFTCRLKYLK VSGTEGPFGTSNIQEQLLPFDLS IFKSLHQVEISHCD
20171	50539	A	20287	1	4670	MAAQRAAGATGGGGRGASAP GGGGGGDPNMATARTFGPERE AEPAKEARVVGSELVDTYTVYI IQVTDGSHEWTVKHRYSDFHD LHEKLVAERKIDKNLLPPKKIIG KNSRSLVEKREKDLEVYLQKLL AAFPGVTPRVLAHFLHFHFYEI NGITAALAEELFEKGEQLLGAG EVFAIGPLQLYAVTEQLQQGKP TCASGDAKTDLGHILDFTCRLK YLKVSGTEGPFGTSNIQEQLLPF DLSIFKSLHQVEISH
20172	50540	A	20288	2	227	ERFRPPIARVIDVSNGKVHVAE/ SCLEETGGLGVDIVLDAG\LDPP DSHCLFLKGATLAFLNDEVWN LSNVQQGRYL
20173	50541	A	20289	3	487	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20174	50542	A	20290	2	222	
20175	50543	A	20291	1	296	HLSPGKSV\LIMDGASA\F\GTIAI QLAHHRGAKVISTACSLEDKQC LERFRPPIARVIDVSNGKVHVA ESCLEETGGLGVDIVLDAGGYI FQHSSYIFT
20176	50544	A	20292	353	512	
20177	50545	A	20293	2	396	VRLYSKDDEPAVKLQLLPHKH DIITLLGVGGHWVTTEENLQLD PPDSHCLFLKGATLAFLNDEVW NLSNVQQGKYLS*QSFQLRILK DVMEKLSTGVFRPQSDEHIPVF EARI\SLEIVEKNQGR*NKLHF
20178	50546	B	20294	1	1182	
20179	50547	A	20295	1	1189	PTRPDQWEQGAGSLTKDWKV AVVKVQAVGAAQRQVTMKGL YFQQSSTDEEITFVFQEKEDLPV TEDNFVKLQVKACALSQINTKL LAEMKMKKDLFPVGREIA\GIV LDVGSKVSFFQP\DDEVVGILP\ LDS*KTPGL\CESLLRVHEPLLG FINPEKVTW\TEAAGSISGMGV RAYYSFLHLS/YLHLLSWGKSV LIMGGS/ASAFGTIAIQLAHHRG AKVISTACSLEDKQCLERFRPPI ARVIDVSNGKVHVAESCLEETG GLGVDIVLDAGVRLYSKDDEP AVKLQLLPHKHDIITLLG\VGGH WVTTEENLQLDPPDSHCLF\LK GATLAFLNDEVWNLSNVQQGK YLCILKDVMEKLSTGVFRPQLD EPIPLYEAKVSMEAV\QKNQGR
20180	50548	A	20296	3	115	FFKFSFFNGC*SIKRQSQGQALD RDIICFVDICTKDC

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20181	50549	A	20297	1	1401	MKEEELTRQIVLVQEAGKGVV RTKDGACAEVWQALEELEKGL CAGIVRVEGMAAAPPSYCFVAF PPRAKDGLVVFGKNSARPRDE VQEVVYFSAADHEPESKVECT YISIDQVPRTYAIMISRPAWLW GAEMGANEHG\VCIANEAINTR EPAAEIEALLGMDLVRL\GLER GETAKEALDVIVSLLEEHGQGG NYFEDANSCHSFQSAYLIVDRD EAWVLETIGKYWAAEKVTEGV RCICSQLSLTTKMDAEHPELRS YAQSQGWWTGEGEFNFSEVFS PVEDHLDCGAGKDSLEKQEESI TVQTMMNTLRDKASGVCIDSE FFLTTASGVSVLPQNRSSPCIHY FTGTPDPSRSIFKPFIFVDDVKL VPKTQSPCFGDDDPAKKEPRFQ EKPDRRHELYKAHEWARAIIES DQEQGRKLRSTMLELEKQGL* AMEEILTSSEPLDPAEVGDLFY
20182	50550	A	20298	1	356	QTPKIVADKDYSVTANS\KIVV VTAGVRQQEGESRLNLVQRNV NVFKFIIPQIVKYSPDCIIIVVSNP VDILTYVTWK/ARFRYLMAEKL GIHPSSCHGWILGAHGDSSVAV WSGVNLAG
20183	50551	A	20299	1	322	
20184	50552	A	20300	25	1086	
20185	50553	A	20301	1	864	
20186	50554	A	20302	13	190	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20187	50555	A	20303	1	1350	MEKPKRLRWLWGPAPSSLLAE PAPEETHAADFVFSARLLQRSP EPSLSWGGRALAEEQKAEGSSC GSAERLVAFAAKTRPYLSLCK MATLKEKLIAPVAEEEATVPNN KITVVGVGQVGMACAISILGKS RAMEHTTAGAPYTPRQQTCQC NMMSLADELALVDVLEDKLKG EMMDLQHGSLFLQTPKIVADK DYSVTANSKIVVVTAGVRQQE GESRLNLVQRNVNVFKFIIPQIV KYSPDCII\IVVSNPRDI\LTYGT WKLSGLPKHRVIGSGCNLDSAR FRYLMAEKLGIHPSSCHGWILG EHGDSSVAVWSGVNVAGVSLQ ELNPEMGTDNDSENWKEVHK MVVESA\YEV\IQA*KGYTH\WA IGLSVA/EILNESMLKNLSR\IHP VSTMVKGMYGIENEVFLSLP\CI \LNAGGLTSVINP\KVKDDEVAQ LKKSADTLWDI\QKDLKDL
20188	50556	B	20304	1337	1706	
20189	50557	A	20305	178	344	
20190	50558	A	20306	2	297	TKMTVNNLHPRVTEEDIV/GQP MKCNLHMNGNVITSDQPILLRL SDSPSMKKESELPRRVNSASSS NPPAEVDPDTILKALFKSSGAS VTTQPTEFKIKL
20191	50559	B	20307	8	478	
20192	50560	C	20308	146	391	
20193	50561	A	20309	3	735	HRQKDARFRIKGKVQDAREML NSRKQQTTVPQKPRQVADARE KISLKRSSPAAFINPPIGTVTPAL KLTKTIQVPQQKAMAPLHPHPA GMRINVVNNHQAKQNLY\DLD EDDDGIASV\PTKQMKFAASGG FL\HHM\AGLSSSKLSMSKALPL TKVVQNDAYTAPALPSSIRTKA LTNMSRTLVNKEEPPKELPAAE PVLSPLEGTKMTVNNLHPRVTE EDIVELFCVCGALKRARLVHPG VAEVG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20194	50562	A	20310	1	1763	MEIASFVGPNVNTVGNLRPAQS AAGDGDEVQSVHSQRQDCQAT GSLSNGENNEKNAFTTYQQET KNTTTPQSVYFLGVNKMSSQH REGSRGTSPPLPVLACFELAVA RVGPRTPEVVRRSLAAEGAGSR GLDCFRLARRIKMADISLDELIR KRGA\AAKGRLNARPGVGGVR SRVGIQQGLLSQSTRTATFQQR FDARQKIGLSDARLKLGVKDA REKLLQKDARFRIKGKVQDAR RDV*TFRKQQTT\VPQKPRQV\A D\ARERIQLGRGRSPAAFLNPPI GTGTPALKLTTTIQRMHVDPVG WILTTECFQVPQQKAMAPLHP HPAGMRINVVNNHQAKQNLY DLDEDDDGIASVPTKQMKFAA SGGFLHHMAGLSSSKLSMS\KA LPLTKVVQNDAYTAPALPSSIR TKALTNMSRTLVNKEEPPKELP AAEPVLSPLEGNKMTV\NNLHP RVTEEDIV\EVFCVCGGL/RRRA RLVPSGG*PKVVFCEKRDDAIT AYKKYNNRCLDGQPMKCNL\H MNGNVITSDQPILLRLSDSP\SM KKESELPRRVNSASSSNPPAEV DPDTILKALFKSSGASVTTQPTE
20195	50563	A	20311	1	915	
20196	50564	A	20312	3	3238	LDTDDDLNSDDYEYEDEAKLVI FPDHYEIALPNIEELPALVSECA RLLARCAWLCVSLKLSTLLTDD TGLLTVRNKEEVLARSAKVTIA CDAVLSSKSPYRKQDPDTWEN ELPVSKYANNLTQLDNGVRIPP SGWKCARCDLRENLWLNLTDG SVLCGKWFFDSSGGNGHALEH YRDMG\YPLAVKLGTITPDGAD VYSFQEEEP\VLDPHLAKHLAH F\GID\MLHMHGTENGLQ\D\NDI KLRVSEWEVIQES

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20197	50565	A	20313	2	2716	AEFRGIPRRRRRQTPRSGSGSAR SAPVRAEAMQRRGALFGMPGG SGGRKMAAGDIGELLVPHMPTI RVPRSGDRVYKNECAFSYDSPN SEGGLYVCMNTFLAFGREHVE RHFRKTGQSVYMHLKRHAREK VRGASGGALPKRRNSKIFLDLD TDDDLNSDDYEYED*AFLVIFP DHYEIALPNIEELPALVTIACDA VLSSKSPYRKQDPHTWENELPV SKYANNLTQLDNGVRIPPSGW KSARCDLRENLWLN
20198	50566	A	20314	2	322	
20199	50567	A	20315	1285	3331	GAGAPRDWRLRRRGGAALCLK VLFDVRSFPREAAALTPHRLLQ FPRSSESPGDQMMAAARLLPVP AGPQPLSFQAKLTFEDVAVLLS QDEWDRLCPAQRGLYRNVMM ETYGNVVSLGLPGCKPDIIFHLE LRGISLGPVPEWG*EEPGPVE*L L/ENVETKGESQNTDLSPKPLIS EQTVILGKTPLGRIDQENNETK* SFCLSPNSVDHREVQVLSQSMP LTPHQAVPSGERPYMCVECGK CFGRSSHLLQHQRIHTGEKPYV CSVCGKAFSQSSVLSKHRRIHT GEKPYERNRACISLYSE\PHLAH LSLIHTGEKPH*CLECPKAFTQL SHLIQHQRIHTGERPYVCPLCG KAFNHSTVLRSHQRVHTGEKP HRCNECGKTFSVKRTLLQHQRI \HTREKPYTCSECGKAFNDRSV LIQHHNVHTREKPYECSECGKT FSHRSTLMNHERIHTEEKPYAC YECGKAFVQHSHLIQHQRVHT GEKPYVCGECGHAFSARRSLIQ HERIHTGEKPFQCTECGKAFSL KATLIVHLRTHTGEKPYECNSC GKAFS\RTQLLIQHQRIHTGEKP YECGECGGAFNQHGHLIQHQK SAQKSCDPWLTQE/CPFSQKLH VEPTSSLQPKRSLC*LYRKLFFG DSVSQNNSRKKHLACCSCGKTS ETTCFIFLNHLEV/HVGE*SYNC
20200	50568	A	20316	1	319	
20201	50569	A	20317	1	2433	
20202	50570	A	20318	2	293	GELAGTQCTRGACPHSP*PLHR Q/HTTVTHITAFDPDSTGQQVW QDLLQDGQLDSPTGDGGSDWE MVGREVVPVLGPGVGGLVISRP CFHVRDPYPWG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20203	50571	A	20319	1	537	GGGTITRGWRGQFCRWQLNPG MYQHRTVIADQMRTLRSREV** HAQGHKFTVCLRREGQTVYQQ VLSLERPSVLRSWNWGLCGYF AFYHALYPRAWTVYQLPGQNV TLTCRQITPILPHDYQVRPPHLY LPLPSLPQDLPLLETAWPARRG SHACNPNTLGGKAGGSRDQEIE TILANT
20204	50572	C	20320	3	170	
20205	50573	A	20321	278	1018	RVGVSRRPEVRNWATRDCRAQ ERMTHCLLHGMGRAGAASLTP KPMSLISAYCGGLWLAAVAVM VQMAALCEGTGQSRISFLLSSA GAKKPMRDCCGMVSSGSLSSL KAAERTPGALFFSSSTPGRYYN YDSSSRPQSRSVMSDQVCWTV GVPEGLWP*EKGDTEVREEEEQ PERKMGFPWRWEVFPTQHVVR ALQTIFELNVQAFAGGAMGAV NGMQPHGVPDKSSVQSDEVW VGVVYGLAATMIQE
20206	50574	A	20322	3	627	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20207	50575	A	20323	270	2945	NTSSFKLSPTTGPPGRYLTTTGA RIWNRLARYLVSEGSGLGAIEV MGTQDPGNMGTGVPASEQISC AKEDPQVYCPEETGGTKDVQV TDCKSPEDSRPPKETDCCNPED SGQLMVSYEGKAMGYQVPPFG WRICLAHEFTEKRKPFQANNVS LSYMIKHIGMGLRYLQWRDRK THVEKKTPFIDMNKSVPPIQSYF \VPLGGLRGGTSTRGWRGQFCR WQLNPGMYQHRTVIADQFTVC LR\REGQTVYQQVLSL\ERPSVL RSWNWGLCGYFAFYHALYPRA WTVYQLPGQNVTLTCRQITPIL PHDYQDSSLPVGVFVWDVENE GDEALDVSIMFSMRN/GTGWW RRCPRGFVGMSPSVWSVGVQT VRGLLLHSSNPSKPLHDGLWLA RSSRAATTVNPH/CTAFDPG\RT GAA\VWQDLLQDGQLDSPTGQ RTPTQKGVGIAGAVCVSSKLRP RGQCRLEFSLAWDMPRIMFGA KGQVHYRRYTRVFGAG\GDAP PALSHYALCRYAEWEERISAW QSP\VLDDRSLPAWYKSALFNE LYFLADGGTVWLEVLEDSLPEE \RAETSVTSAPTLRDYRRFG*LE GQEY\RMYNTYDVHFYASFALI MLWPKLELSLQYDMALATLRE DLTRRRYLMSGVMGTCEKEGT FIPHDIGGPRWMEPWASAFNAY \LIHDTADW\KDLNLKFVACRFI
20208	50576	C	20324	123	359	
20209	50577	A	20325	1	259	KPVGEKDTWSGMRTTGQLRPA HGVRLKANKDSLYKPILRQKK HFNSLHIPKALQKALPFKNKPK TQAKAGKVPKDRRR*TVSNITV
20210	50578	A	20326	297	585	
20211	50579	A	20327	182	374	PDFRIAAT*VVLDLDKSIKIVKK LKLTGFPYKIFKNTSFIKACISIY SHIYKSPYCLRKGMKYL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20212	50580	A	20328	1	1267	MAANRKDFIHRRCGPELSQSEA VPQGLCRAERSSALAMLSGSVP RRTQLRPCKGTQRRCRRGGEA DSGGEAVGGGAAERRSAAARR RGGRRRGGGEAVGGGAAERRS AAARRRRGGRRRRGGGEAGGG GAAEARRAAAARRAAAARRA AAARRAAAARRAAAARRIAES GGEAHSRGEAHSGGEAHSGGA GAERRRPRLHSPALKTHPGQSS EGHVEYKLNHVEFEDQDDEAR VQYEGFRPGMYVRVEIENVPCE FVQNFDPLYPIILGGLGNSEGNV GHVQMRLKKHLWYKKILKSQ DPIIFSVGWRRFQTILLYYIEDH NGRQRLLKYTPQHIHCGAAFW DIVFMRT\WYLVSIPAFYNPVTS LLKPVGEKDTWSGMWTTGQL RLAHGVRLKTTKDSLYKNIHMI VETDTYSDHEEINTS
20213	50581	A	20329	66	1414	KEELYGDFEDLETGDVHKGKS GPDTQNEDVEK\KEEIDPDEEES AKKKHLDKKRKLKEMFDVEY DEGESTYFDDLKGEMQKQAQV N/RHTRFPPRAPRHVQLNHAEF EDQDDEARVQYEGFRPGMYVC VEIENVPCEFV*NLDPRYPIILG GLGNSEGNVGYVQVGPFAAYL VPEALWISPPSIILPSHPPQMRLK KHRWYKKILKSRDPIIFSVGWR RFQTIPLCYIEDHNGRQRLLKY TPQHVHRGAAFRSSSSSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSSR IAATGVVLDLDKSIKVVKKLKL TGFPYKIFKNTSFIKGMFNSALE VAKFEDAVIRTVSGIRGQIKRA L*APEGAFQDSLEDKLRMSDIV FMRTWYPVSIPAFYNPVTSLLK PVGEKDTWSGMWTTGQLRLA HGVRLKTNKDSLYKVLVVCVL VEMKPVLYRQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20214	50582	A	20330	4210	5099	AKDQKKHRKKNSGPKAAKKK KRLLQDLQLGD\EEDAWKRNP KAF\AFQSAVWMARSFHRTQD LKTKKHHIPVVD\RTPLEPPPI\V VVVMGPPKVGKSTLI*CLI\RNF TRQKLTEI\RGPVTIVSGKKLRL\ TIIDCGCDINMMIDLG\EVADLV LMLIDASFGFEMETFEFLNICQV HGFPKIMGVLTHLDSFKHNKQL KKTKKRLKHRFWTEVYPGAKL FYLSGMVHGEYQNQEIHNLGH FITVMKFRPLTW
20215	50583	A	20331	56	467	
20216	50584	A	20332	282	452	
20217	50585	A	20333	1	1356	
20218	50586	A	20334	80	1096	GLGVRVLRCPGVYRGPCTRAA YLGWLWTTLSPYCCLRSADMN PIVLVHGGGAGPISKDRKERVH HGMVRATTVGYGILREGGSAV DAVQGAVVALEDDPEFNAGCG SVLNTNGEVEMDASIMDGKDL SAGAVSAVQCIANPIKLARLVM ENFPHCFLTDQGAAHFAGAMG VPEIPGKKLVTERNKKRLEKEK HEKGAHKTDCQKNLGTVGAV ALDCKGNVAYATSTGGIVNKM VGRVGDSPSLGAGGYADHDF* AVSTTGHGE\SFLKVNLARLTLF HIEQGKTLEEAADPIG/CG*MKS RVKGLGGLIVVSKTGDWVAK WTSTSMPWAAAKDGKLPLRN
20219	50587	A	20335	1	1416	
20220	50588	A	20336	3	277	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20221	50589	A	20337	235	2811	VKMEAPLRPAADILRRNPQQD YELVQRVGSGTYGDVYKARNV HTGELAAVKIIKLEPGDDFSLIQ QEIFMVKECKHCNIVAYFGSYL SREKLWICMEYCGGGSLQDIYH VTGPLSELQIAYVCRETLQGLA YLHTKGKMHRDIKGANILLTD HGDVKLADFGVAAKITATIAKR KSFIGTPYWMAPEVAAVEKNG GYNQLCDIWAVGITAIELGELQ PPMFDLHPMRALFLMSKSNFQP PKLKDKTKWSSTFHNFVKIALT KNPKKRPTCLKDF*HHTF\VAQ PGLSRALAVELLDKVNNPDNH AHYTEADDDDFEPHAIIRHTIRS TNRNARAERTASEINFDKLQFE PPLRKETEARDEMGLSSDPNFM LQWNPFV*WWQITGKSTSKR\A IPPPLPPKPRISSYPEDNFPDEEK ASTIKHCPDSESRAPQILRRQSS PSCGPVAETSSIGNGDGISKLMS ENTEGSAQAPQLPRKNDKRDFP KPAINGLPPTPKVLMGACFSKV FDGCPLKINCATSWIHPDTKDQ YIIFGTEDGIYTLNLNELHEATM EQLFPRKCTWLYVINNTLMSLS EGKTFQLYSHNLIALFEHAKKP GLGCPIFQTHRFPDRILPRKFAL TTKIPDTKGCHK\CCIVRNPYTG HKYLCGALQSGIVLLQWYEPM QKFMLIKHFDFPLPSPLNVFEM LVIPEQEYPMVCVAISKGTESN
20222	50590	C	20338	365	389	
20223	50591	A	20339	1	350	FDVTELCGQWLSRGGEIEGFRL SAHCSCDSRDNTLQVDINGFTT GRRGDLATIHGMNRPFLLLMA TPLERAQHLQSS/RAPCCVPQAL EPLPIVYYVGRKPKVEQLSNMI VRSCKCS
20224	50592	A	20340	1	708	
20225	50593	B	20341	229	1249	
20226	50594	B	20342	49	375	
20227	50595	A	20343	42	305	GARAHAPVLVQEEDLHGPHPL RPERL/PSVPSGRSSPPASR/PVG PGG/DQLRPSPDRQQQVSGME WC/PWSGRSPGLSPTVGPRGGC HPTST
20228	50596	B	20344	8	1990	
20229	50597	A	20345	1	1512	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20230	50598	A	20346	1	1663	SGRDRRGRAWRKRNREPPTRG RSPDPQGPSARPLPSLGARISAA DRLSGLAARLIGNSRPVAGANA GVGPDLSHAGLVPTCARRLRR KNGLGRRRRRPPPSPPRPSLESS SRLTTLGTSQPLKFNFFPCDLRI FQTFNC\WGI\PVL*AKHR\ADR MRRFGRPF*TQESFDLALLEEV WSEHDFQYLRQKLSPTYPAAH HFRSGIIGSGLCVFSKHPIQELT QHIYTLNGYPYMIHHGDWFSG KAVGLLVLHLNGMELNAYVTH LHAEYNRQKDIYLTHLVG\QA WELAQFIHHTSKKADVVLLCG DLNMHPEDLGCCLLKEWTGLH DAYLETRDFKGSEEGNTMVPK NCYVSQQELKPFPFGVRIDYVL YKAVSGFYISCKSFETTTGFDPH SGTPLSDHEALMATLFVRHSPP QQNPSSTHGP\AERSPL/MCVCL KEALDGSLGLGMA\QARWWA\ TFA\SYVIGLGL\LLLALLCVLA AGGGAGEAAILLWTPSVGLVL WAGAFYLFHVQEVNGLYRAQ AELQHVLGRAREAQDLGPEPQ LYALL\LGQQEGDRTKEQ
20231	50599	A	20347	175	544	RLRCQKGIPPSLRGRAWQYLSG GKVKLQQNPGKFDQ\LDMSPG DPTWLDVIERDLHRQFP\FHEM FVS/RGGH/GQQDLFRVLDAYT LYRPEGSYCKTQAPIAAVLLMH MP\AEQAFWCLVQICEKYL
20232	50600	A	20348	1	434	CAAGIRHELRRRARLGWRTAT ERMGRACPRPGKACREPGRA* ARALTPQPPTNSALSGLTRRPT ASPS\PHRQVRLDRGLAGRQGR AGGSTPGGAEAEGVQVAGHAQ AMVVAAARDACPPQHVPPKDS APKDSAPQDLAPQVSAH
20233	50601	A	20349	3	510	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20234	50602	A	20350	1	1669	MAKSNGENGPRAPAAGESLSG TRESLAQGPDAATTDELSSLGS DSEANGFAERRIDKFGFIVGSQ GAEGASILGQTVPSPHGRVGEG PPIRSYTASSTGTGNRLEEVPLE VLRQRESKWLDMLNNWDKW MAKKHKKIRLRCQKGIPPSLRG RAWQYLSGGKVKLQQNPGKF DELDMSPGDPKWLDVIERDLH RQFPFHEMFVSRGGHGQQDLF RVLKAYTLYRPEEGYCQAQAPI AAVLLMHMPAEQAFWCLVQI
20235	50603	A	20351	1	243	
20236	50604	A	20352	70	382	
20237	50605	A	20353	2	322	
20238	50606	A	20354	86	215	
20239	50607	B	20355	1	735	
20240	50608	A	20356	92	1104	MSSPQAPEDGQGCGDRGA\PPG DLRSVLVTTVLNLEPLDEDLFR GRHYWVPAKRLFGGQ\IVGQA M\VAAATSV\SEDVHV\HS\LHC YF/VFRAGDP/KSLPVLYQVERT RTGVEA\FRLRSVKGP*NMGKPI F\ICQ\ASFQQA\QPSP\MQHQFS MP/TLLPTTEELV*IVRTLFDQY LRDPNLQKRYPLALNRI\AAQE VPIEIKPVNPSPLRPAAEEWEPK QMFW\VRARGY\IGKSTPWKM\ HC\CV\AAYIS\DYAFLGTALAA LTQWPSTRCHFHGPPLD/HNPM W\FHAPFRAD\HWMLYECESPW AGG\SRGL\VHGRLWRQDGVLA VTCAQEGVIRVKPQVSESKL
20241	50609	A	20357	3	1106	LRRQLQPLLPLPKSPPRSGAHL GSLFRSPQPSYPVRPPGSAGTPP PACLPPAQPCQGSPAMNLFRFL GDLSHLLAIILLLLKIWKSRSCA GISGKSQVLFAVVFTARYL\DLF TNYISLYNTCMNV\VYIACSFTT VWLIY\TKFK\ATYDG\NH\DTFR SGSSRVV/VPQAILGVSWSNHD FTPL\EILW\TFSIYLGVSGPSLPQ LFHG*GKTGRGRETHSPATYLF CAKAFNPHALSLSNW\IWR\YHF \EGFFD\LIAIVAGPGPRQSSYCD FF\YLYYSPKFLKGERKFEFCRH RPRFLSISSPRAAAGRAGGKAG RKMKSFSHPRGDFFKNPTSLCS PIPPSCPGLKGNSARIPGLWGAQ RLGAVCSFLAF

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20242	50610	A	20358	356	1356	TPTTSGRTRKMWPRPGT*PP/A NCSANINLTHQPWFQVLEPQFR QFLFYRHCRYFPMLLNHPEKCR GDVYLLVVVKSVITQHDRREAI RQTWARAAVRGWGPSAVRTLF LLGTASKQEERTHYQQLLAYE DALYGDILQWGFLDTFFNLTLK EIHFLKWLDIYCPHVPFIFKGDD DVFVNPTNLLEFLADRQPQENL FVGDVLQHARPIRRKDNKYYIP GALYGKASYPPYAGGGGFLMA GSLARRLHHACDTLELYPIDDV FLGMCLEVLGVQPTAHEGFKTF GISRNRNSRMNKEPCFFRAMLV VHKLLPPELLAMWGLVHSNLT CSRKLQVL
20243	50611	A	20359	221	1579	CCVDEGLEPTCFERTEDIGGVW RFKVSEIFLGLEQVVLLFQGESQ LMSCFSDFPMPEDFPNFLHNSK LLEYFRIFAKKFDLLKYIQFQVL YFWGNGFLCISSAHI*IENTQSN GKEQSAVFDAVMVCSGHHILP HIPLKSFPGETRWDSQLFGVGF QVLYM*FEGKRILVIGMGNSGS DIAVELSKNAAQV*CSLLTMYL EGRKWGCHTGDWDSVFHTRFR SMLRNVLPRTAVKWMIEQQM NRWFNHENYGLEPQNK*SYFA FLMVYSLVSKVV*RCLKVKST VKELTETSAIFEDGTVEENIDVII FATGYSFSFPFLEDSLVKVENN MVSLYKYIFPAHLDKSTLACIG LIQPLGSIFPTAELQARWVTRVF KGLCSLPSERTMMMDIIKRNEK RIDLFGESQSQTLQTNYVDYLD ELALEIGAKPDFCSLLFKDPKLA VRLYFGP\CNSY
20244	50612	A	20360	3	200	
20245	50613	A	20361	292	570	
20246	50614	A	20362	2	511	RLRSGPLRLPGADSGSGPKAVC SPPFIVAPTGRGYCGDHESSFGA MEEPGVTPQPYLGLLLEELRRV SPGAMSVTWP/EGSREPPGEGSS RPALGSKPPWSEVPKPVLVCCP APAR\FEAVVRLVGRLSGFCVM EEDLGLWEGREKKLALMLSGLI EEKSKLLEKFSLVQKE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20247	50615	A	20363	2	3262	FLSDLEENFENNIFSFQVCDVVL NHAPDFRRVYLPYVTNQTYQE RTFQSLMNSNSNFREVLEKLES DPVCQRLSLKSFLILPFQRITRL KLLLQNILKRTQPGSSEEAEAT KAHHALEQLIRDCNNNVQSMR RTEELIYLSQKIEFECKIFPLISQS RWLVKSGELTALEFSASPGLRR KLNTRPVHLHLFNDCLLLSRPR ESVTGVAGQGTRGEGDEERGG SEREREGSEKLRWISALAMPRE ELDLLECYTAE
20248	50616	A	20364	2	2339	TGRGYCGDHESSFGAMEEPGA TPQPYLGLLLEELRRVVAALPE GMRPDSNLYGFPWELVICAAV VGFFAVLFFLWRSFRSVRSRLY VGREKKLALMLSGLIEEKSKLL EKFSLVQKEYEGYEVESSLKDA SFEKEATEAQSLEATCEKLNRS NSELEDEILCLEKELKEEKSKHS EQDELMADISKRIQSLEDESKSL KSQVAEAKMTFQIFQMNEERL KIAIKDALNENSQLQESQKQLL QEAEVWKEQVSELNKQKVTFE DSKVHAEQVLNDKESHIKTLTE RLLKMKDWAAMLGEDITDDD NLELEMNSESENGAYLDNPPK GALKKLIHAAKLNASLKTLEGE RNQIYIQLSEVDKTKEELTEHIK NLQTQQASLQSENTHFENENQ KLQQKLKVMTELYQENEMKL HRKLTVEENYRLEKEEKLSKV DEKISHATEELETYRKRAKDLE EELERTIHSYQGQIISHEKKAHD NWLAARNAERNLNDLRKENA HNRQKLTETELKFELLEKDPYA LDVPNTAFGRGSRGPGNPLDH QITNERGESSCDRLTDPHRAPS DTGSLSPPWDQDRRMMFPPPG QSYPDSALPPQRQDRFCSNSGR LSGPAELRSFNMPSLDKMDGS MPSEMESSRNDTKDDLGNLNV PDSSFP\AKKEATGPGFVPPPLA PVRGPLFPVDARGPFLRRGPPFP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20249	50617	A	20365	160	2810	GLRVPLSPSSPRSRLRSGPLRLP GADSGSGPKAVCSPPFIVAPTG RGYCGDHESSFGAMEEPGATP QPYLGLLLEELRRVVAALPEG MRPDSNLYGFPWELVICAAVV GFFAVLFFLWRSFRSVRSRLYV GREKKLALMLSGLIEEKSKLLE KFSLVQKEYEGYEVESSLKDAS FEKEATEAQSLEATCEKLNRSN SELEDEILCLEKELKEEKSKHSE QDELMADISKRIQSLEDESKSL KSQVAEAKMTFQIFPMNEERLK IAIKDALNENSQLQESQKQLLQ EAEVWKEQVSELNKQKVTFED SKVHAEQVLNDKESHIKTLTER LLKMKDWAAMLGEDITDDDN LELEMNSESENGAYLDNPPKG ALKKLIHAAKLNASLKTLEGER NQIYIQLSEVDKTKEELTEHIKN LQTEQASLQSENTHFENENQKL QQKLKVMTELYQENEMKLHR KLTVEENYRLEKEEKLSKVDEK ISHATEELETYRKRAKDLEEEL ERTIHSYQGQIISHEKKAHDNW LAARNAERNLNDLRKENAHNR QKLTETELKFEL\LEEDPYALDV PNTAFGREHSPYGPSPLGWPSS ETRAFLSPPTLLEGPLTLSPLLP GGGGRGSRGPGNPLDHQITNER GESSCDRLTDPHRALSDTGFLS PPWDQDRRMMFPPPGQSYPDS ALPPQRQDRFCSNSGRLSGPAE
20250	50618	A	20366	131	461	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20251	50619	A	20367	1	1761	MARGYGATVSLVLLGLGLALA VIVLAVVLSRHQAPCGPQAFAH AAVAADSKVCSDIGR\AILQQQ GSPVDASIAALVCTSVVNPQSM GLGGGVIFTIYNVTTGKVEVIN ARETVPASHAPSLLDQCAQALP LGTGAQWIGVPGELRGYAEAH RRHGRLPWAQLFQPTIALLRGG HVEAPVLSRFLHNSILRPSLQAS TLRQLFFNGTEPLRPQDPLPWP ALATTLETVATEGVEVFYTGRL GQMLVEDIAKEGSQLTLQDLA KFQPEVVDALEVPLGDYTLYSP PPPAGGAILSFILNVLRGFNFST ESMARPEGRVNVYHHLVETLK FARGQRWRLGDPRSHPKLQNA SRDLLGETLAQLIRQQIDGRGD HQLSHYSLAEAWGHGTGTSHV SVLGEDGSAVAATSTI\NTPFGA MVY\SPRTGIILNNELLDLCERC PRGSGTTPSTVSGDRVGGAPGR CWPPVPGEPSPSSMEPSILINKA QGSNLVIGCAGGELIISAVAQAI MSKLWLGFDLRAAIAAPILHVN NKGCVEYEPNFSQEVQRGLQD RGQNQTQRPFFLNVVQAVSQE GACVYAVSDLRKSGEAAGY

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20252	50620	A	20368	341	2239	LCASSCPFICPPIRPSVCPPAAPL LLGCRAMARGYGATVSLVLLG LGLALAVIVLAVVLSRHQAPCG PQAFAHAAVAADSKVCSDIGR AILQQQGSPVDATIAALVCTSV VNPQSMGLGGGVIFTIYNVTTG AQWIGVPGELRGYAEAHRRHG RLPWAQLFQPTIALLRGGHVVA PVLSRFLHNSILRPSLQASTLRQ LFFNGTEPLRPQDPLPWPALAT TLETVATEGVEVFYTGRLGQM LVEDIAKEGSQLTLQDLAKFQP EVVDALEVPLGDYTLYSPPPPA GGAILSFILNVLRGFNFSTESMA RPEGRVNVYHHLVETLKFAKG QRWRLGDPRSHPKLQNASRDL LGETLAQLIRQQIDGRGDHQLS HYSLAEAWGHGTGTSHVSVLG EDGSAVAATSTIYTPFGAMVYS PRTGIILNNELLDLCERCPRGSG TTPSPV/SGDRVGGAPGRCWPP VPGERSPSSMVPSILINKAQGSK LVIGGAGGELIISAVAQAIMSKL WLGFDLRAAIAAPILHVNSKGC VEYEPNFS/QETVSCFVALAVL KLLASSDPATLAPKWLRL*EVQ RGLQD\RGQNPDPEGPFFLDVV PACV/SQEGACV*RPSRT*RKSG EAAGLLKTLLCPELEVLAPP
20253	50621	A	20369	203	1518	RCYLQFLALLLTSTSARAAAAI AAAEEPAGSPSVMTRAGDHNR QRGCCGSLADYLSSAKFHL*LG HSLSTWGDRMWHFAVSVFLVE LYGNSLLLTAVYGLVVAGSVL VLGAIIGDWVDKNARLKVAQT SLVVQNVSVILCGIILMMVFLH KHELLTMYHGWVLTSCYILIITI ANIANLASTATAITIQRDWIVV VAGEDRSKLANMNATIRRIDQL TNILAPMAVGQIMTFGSPVIGC GFISGWNLVSMCVEYVLLWKV YQKTPALAVKAGLKEEETELK QLNLHKDTEPKPLEGTHLMGV KDSNIHELEHEQEPTCASQMAE PFRTFRDGWVSYYNQPVF/LGW HGSCFPLYDCPGL*LHHHRVRL HSGTEWFHPQYFDGSISYNWN NGNCSFYLATSKMWFGSDRSD LRIGTAFLFDLVCDLCIHAWKP
20254	50622	A	20370	1	497	
20255	50623	A	20371	1	1575	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20256	50624	A	20372	251	1351	SLKSTDGVKCGLSINIFHKRREN ILFGMGNPLLDISAVVDKDFLD KYSLKPNDQILAEDKHKELFDE LVKKFKVEYHAGGSTQNSIKV AQWMIQQPHKAATFFGCIGIDK FGEILKRKAAEAHVDAHYYEQ NEQPTGTCAACITGDNRSLIAN LAAANCYKKEKHLDLEKNWM LVEKARVCYIAGFFLHVSPESV LKVAHHASENNRIFTLNLSAPFI SQFYKESLMKVMPYVDILFGK* DRSWPTFAREQGFETKDIKEIA QKDTSPCPKMNSKGQRIRDLHP KGRDDT\IMATESEVTAFAGLGI KTQKEI\IDTNEAGDAFVGGFLS QL\VSDKPLTECIRAGHYAASIII RRTGCTFPEKPDFH
20257	50625	A	20373	1	201	
20258	50626	A	20374	15	304	
20259	50627	A	20375	51	283	TWVKEAQNDGLCVCYIFIFNCQ MTGLDIEKD\QIIEMACLITDSD LNILAEVRDAHVIQSYFLKGTG NITIIFSSFFI
20260	50628	A	20376	2	520	QRRLRDWGRGCWSRVMLGGS LGSRLLRGVGGSHGRFGARGV REGGAAMAAGESMAQRMVW VDLEMTGLDIEKDQIIEMACLIT DSDLNILAE/GNSVHEDKKFLD KYMPQFMKHLHYRIIDVSTVKE LCRRWYPEEYEFAPKKAASHR ALDDISESIKELQFYRNNIFKKK
20261	50629	A	20377	2	206	EFGTRRHVPPCLINFFKDQGSP* LARLVSNSWPQVIHPPWPPTVL GLRGVGHCPWPRLGNSSWVW GGH

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20262	50630	A	20378	1	1401	MRSQKTSLYFSLEAKFYCSLRN ERIASCDIINDAGIQTKTLMKRS HVAYALKKPVEQGDSFELESK GFMAITIAVCIEQNLRHSSSLFIC MSSTGQSGTTNNASSLIPSYVFT PPHFNLLDKQGRTAGKSHCGE DRKEHNNACHQEEEAPDVNPL HGLQASGSPGKTQRIKSQALEG TRLYSHSEETRSGLIRLLRLRQR RLRDWGRGCWSRDMLGGSLG SR\LLRGVGGSHGRFGARGVRK RGAAMAA\GESMAQRMVWVD LEITGLDI*KVQIIEMACLITDSD LIILAEGPNLII\KQPDELLDSMS\ DWCK\EHHGKSGLTKAVKEST NYHCQQAE\YEFPALWYDQPD SLPGLCPTCQEIKFHE\DKKFP* QNTCPQFMKHLHYRII\DVSHC* KELCQTAGYPEEYEFA\PKKAA FSIGPLDD\ISENL\KKVPFFPEN NHLPRKKIRMKRKEGKL*KMG ENEKTVS
20263	50631	C	20379	180	248	
20264	50632	A	20380	455	1133	GIEGWRGEADTLPAEGQDGGR RVSKGDIFSGGAETAQGWGVM GPFQAAPSKRAGREHRGGQRR VQHVGWYPRPGSDKGHGKGT QDSRVPQLPPHPPPIHLVSRHRG KLRHGFLRPMPEPRGLESGKTG NCFGELQH/RTSP*GRSGPREGG PRNIAQQGGCRGSACGRRSH\E ALRPRVWCGEGPQWTW\CAVC P\NRSAPGAGLAD\RQHPGESRA WGETRLGEAGGAE
20265	50633	A	20381	214	412	
20266	50634	A	20382	3	257	PATVIITVNTTWSAALISRESAL RSFPVKAAALSPSREGGSVTAT PNVRSMTSAVPIMRVSVQ\SKR *PEEQN*QETYPQTTSCR
20267	50635	A	20383	1	1569	
20268	50636	B	20384	15	1744	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20269	50637	A	20385	2	7205	QASGSCWSSPFFSASTPSAAAT GVPGPTDMAAVLQQVLERTEL NKLPKSVQNKLEKFLADQQSEI DGLKGRHEKFKVESEQQYFEIE KRLSHSQERLVNETRECQSLRL ELEKLNNQLKALTEKNKELEIA QDRNIAIQSQFTRTKEELEAEKR DLIRTNERLSQELEYLTEDVKR LNEKLKESNTTKGELQLKLDEL QASDVSVKYREKRLEQEKELL HSQNTWLNTELKTKTDELLAL GREKGNEILELKCNL
20270	50638	A	20386	120	7384	GWTRFPRVPPRESPAGGRARAT ERGDRGGGPGVWVLLVFAFLL RFYPVGRCHWGPWAPPTWAA VLQQVL\ERTELNKL\PKSVQNK LEKFLADQQ\SEIDGP*RGGHGE I*RWESEQQYFEIEKRLSHSQER LVNETRECQSLRLELEKLNNQL KA\LPEKNKELEIA\QDRNIA\IQ SQFTRTKEELEAEKRDLIRT\NE RLSQELEYLTEDVKRLNEKLKE SNTTKGELQLKLDELQASDVSV KYREKRLEQE
20271	50639	A	20387	2	433	
20272	50640	A	20388	2	181	GFRRVSLEF*FPGVRWGMRKL GAPDLAPFSQM*SGGRAPCVAS *PPCRGLRLMRTGSRR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20273	50641	A	20389	1	2422	MAGALAGLAAGLQVPRVAPSP DSDSDTDSEDPSLRRSAGGLLR SQVIHSGHFMVSSPHSDSLPRRR DQEGSVGPSDFGPRSIDPTLTRL FECLSLAYSGKLVSPKWKNFK GLKLLCRDKIRLNNAIWRAWYI QYVKRRKSPVCGFVTPLQGPEA DAHRKPEAVVLEGNYWKRRIE VVMREYHKWRIYYKKRVSGG GPGRPQSFPPAAAGYRPPRKIPG KGILTPELAPLGPSIQSRADSAT VWPQRLLAASLPRGRLRKPSRE DDLLAPKQAEGRWPPPEQWCK QLFSSVVPVLLGDPEEEPGGRQ LLDLNCFLSDISDTLFTMTQSGP SPLQLPPEDAYVGNADMIQPDL TPLQPSLDDFMDISDFFTNSRLP QPPMPSNFPEPPSFSPVVDSLFSS GTLGPEVPPASSAMTHLSGHSR LQARNSCPGPLDSSAFLSSDFLL PEDPKPRLPPPPVPPPLLHYPPP AKQETVPEFPCTFLPPTPAPTPP RPPPGPATLAPSRPLLVPKAERL SPPAPSGSERRLSGDLSSMPGPG TLSVRVSPPQPILSRGRPDSNKA LLGSFLGSPNSLLPETENRRITHI SAEQ\KRRFNIKLGFDTLHGLVS TLSAQPSLKVSKATTLQKTAEY ILML\QQERAGLQEEAQQLR\DE IEEL\NAAINLCQQQLPATGVPI\ THQRFDQMRDMFD\DYVRTRT LHNW\KFWVVSSLKPMAGGLQ
20274	50642	A	20390	315	387	
20275	50643	A	20391	570	1017	FCLHILQVPHTLAGHSPCAHG/R PPLPRF/HDRLPEEIQQQIVRETF HLVLKRDDNICNFLEGGSLIGG SDYKLIYRHYATLYFVFCVDSS ESELGILDLIQLEQFKKDNEETG FGSGTRALEQALEKTKANIKW VKENKEVVLQWFTENSK
20276	50644	A	20392	1	1128	
20277	50645	B	20393	62	130	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20278	50646	A	20394	99	718	ENRGWQSMIQAILVVNNHGKP RLVRF\YQRFPEE\IQQQIVRETF HLVLKRDDNI\CNFLEGGS/L*L GGSDYK\LIYRHYATLYFVFCV DSSESELGI\LDLIQVFVGNSWIS CFENVV*IWI*TFH\MDK\VHYIL QEVVMGG\MVLETNMNEIVAQ IEAPNRLEKSEG\GLSAAP\ARA VSAVKNINLPEIPRNINIGDLNIK VPNLSQFV
20279	50647	A	20395	3	370	SLHLAAILGETSTVEKL/YAAGA GLCVAERRGHTA/LHLACRVG AHACARAL/LQPRPRRPREAPD TYLA/QGPDRTPDTNHTPVAL/Y PDSDLEKEEEESHTPLHVAVIH K/DVEMVRLLRDAGADLDK
20280	50648	A	20396	2	1097	SRQSPATGGRLRWAPDAALAM AVVACLGQAADSDKWGDSRLS SLGPDAAAPGGPGLGAELGPGL SWAPLVFGYVTEDGDT\FSAGT EYMDLQNDLRQVSHEGWCRA WGPGFPV*LPTACPLLLQTALH LAAILGETSTVEKLYAAGAGLC VAERRGHTALHLACRVGAHAC ARALLQPRPRRPREAPDTYLAQ GPDRTPDTNHTPVALYPDSDLE KEEEESEEDWKLQLEVENYEG HTPLHVAVIHKDVEMVRLLRD AGA\DLDKPEPTCGRSPLHLAV EGPRQADVLELL\LRAGANP\A A\RMYGGRTP\LGSAMLRPNP\I LAR\LLRA\HGAPEPEGEDEKSG P\CSSSSDSDSRLSPSAWSPLPPG
20281	50649	A	20397	47	478	LRLRKLKAIMLAFGRGKTRNSE ESSDSQEVIWKDTWMFTALGH CGISMFGLWDRELTLTNYELFIS SSPTPS*VPQRLCYVVSTFLMYL SLDHLYTGEMKAFLHVLDTQS VNSDFAFFVRLSFQYFYKLLCV LWQGTVNKEFI

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20282	50650	A	20398	1	1992	METFVIGWQPAVTVWTIGVAP PPTLEITSQHEIWVAQHPNYIIS VKQESPAPMPWTAVALDSHRS MNTIVNCAREGSTLHAPYESLM PDDLRWNSFILKSSPSPHSRSME KLSSMKLVPGAKYIRDHCLVK EALTIHKSPILLAAIDLLGNLSG FTDYQSYVIHGCLENNPTLERSI ALFNGISKWVQLMVLSKPTPQ QRAEVITKFINVAKGATAELNL WQHPKIIMLSQVVPGVFSQEHS LIRSLHANLHFTVCFPEDPLAM VAGMVQESTCPCEILQLPTTGQ LANWNEMTELVSSNGNYCNYR KPFPTCDGLKIPILGVHLKDWIA VHVNFPDWTEEIKVNIVKMHQ LSVTLSELVSLQNASHHLEPNM DLINLLTV/DGLQPADLMHAISL FRTSHRPQGLFL*IKGTSPAEHS DRSCQHFRV*KCSSWESWHGG/ WLSLEE*MSSFLLRSF*KI/YCSR KNVACQTRAVCTNLDALLSSS QMSNNHHPFSLPAQDEVFEFPG VTAGHRDLDSRAITLVTGSSRK ISVRLQRATTSQATQTEPVWSE AGWGDSGSHTFPKMKSKFHDK AAKDKGFAKWENEKPRVHAG VDVVDRGTEFELDQDEGEETR QDGEPAEAVSVGAVAAPGMSE KELLQVDGRTPTRVLRMADLV GISEFRGEPAFV
20283	50651	A	20400	1	417	
20284	50652	A	20401	2	94	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20285	50653	A	20402	190	2189	AFCPAGTRSAPCPRPRTMTMTL HTKASGMALLHQIQGNELEPLN RPQLKIPLERPLGEVYLDSSKPA VYNYPEGAAYEFNAAAAANA QVYGQTGLPYGPGSEAAAFGS NGLGGFPPLNSVSPSPLMLLHPP PQLSPFLQPHGQQVPYYLENEP SGYTVREAGPPAFYRPNSDNRR QGGRERLASTNDKGSMAMESA KETRYCAVCNDYASGYHYGV WSCEGCKAFFKRSIQELPTLC*I GWYWYQNRDIDQWNRTEPSEI IPHIYNHLIFDKRDKNKKWGKD SLFNK*CWENWLAICRKLKLD HFLTPYTKINSRWIKDLNVRTK TIKTLEENLGNTIQDIGMGKDF MSKTPKAMATKAKIDKWDLIK LKSFCSLLGYLKTENTAKETTIR LNRQPTEWEKIFAIYSSDKGLIS RIYKELKQIYKKK/GNPINKWV KDMNRHFSKEDIYAANRHMKK CSSSLAIREMQIKTTMRYHLTP VRMVIIRKSGNDRCWRGCGEIG TLLHCWWDCKLVQPLWKTVW RFLRDLQLEIPFDPAIPLLGIYPK DYKSCCYKDTCTRMFIAALFTI AKTWNQPKYPTTIG*IKKMWHI YTMEYYAAIKKDEFI/SLVGTW MKLETIILSKLTQEQKTKHHMF SFITGSRTMRTHGCREGNITHW GLLRDSVNMVTQAH
20286	50654	A	20403	2	907	RVPAMATSSFALPRILGAGARA PSRWLGFLGKATPRPARPSRRT LGSATALMIRESEDSTDFNDKIL NEPLKHSDFFNVKELFSVRSLF DARVHLGHKAGCRHRFMEPYI FGSRL\DHDIIDL\EQTATHLQLA LNFTAHMAYRKGIILFISRNRQF SYLIENMARDCGE\YAHTRYFM GGMLTNARLLYGPTVRLPDL\II FLHTLNNIFEPHVAVRDAAKM NIPTVGIVDTNCNPCLITYPVPG NDDSPLAVHLYCRLFQTAITRA KEKRQQVEALYRLQGQKEPGD QGPAHPPGADMSHSL
20287	50655	B	20404	70	1477	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20288	50656	A	20405	153	688	AHPLLRSSPEETSRSRKPRCATT NGFLRIPEKTTPWSPEVAIHRNR \ITPNKPPTVKSLEKVFC*LDKE AQKEKESQK*KGPVRMPTKT\L RITT\RKTP\CGE\GSKDRWDRF\ QIEISQSRLH*LCTSPF*DLFKQI TFHQYLSPGV*GEKSPFADALS QISIHTIDDQFVKKKKKKKKW
20289	50657	A	20406	26	603	RPRGTLREYKVVGRCPAHSHK CHTPPL\YR\MRNFAP\N\HVVA KS/RAFWYFVSQLKKDEESLPG EIVYCGQGV*ESSPCGSKNFGI WLRY\DSRSG\THN\MYRE*PGP *PTAGGCSPSCYPRHGVARHAG PEAHFHFRFIERLEEI\AGQQNC RRPGCSKQFPRISRFKFP\LAPPG SLRRQDKPRF\TTKRPNTFF
20290	50658	A	20407	161	418	
20291	50659	A	20408	1	2580	
20292	50660	A	20409	3	264	
20293	50661	A	20410	3	302	ALALLSPWVVDGTRHRGAGGG AHPGGSGRTGAHRGGGRLRHG GLQVPSPAPREGS*GPARNRAQ RRAVDRTQ*ECSSKEVYT*RLV PPPPLGHSHSSPE
20294	50662	A	20411	2	415	
20295	50663	C	20412	1	1230	
20296	50664	A	20413	238	1765	VTAYHAATMNEVSVIKEGWLH KRGEYIKTWRPRYFLLKSDGSF IGYKERPEAPDQTLPPLNNFSV AECQL\MKTERPRP\NTFVIPCP QLTNIIRGTL/HTLVSPNQRE\EW NPPYQVVPQQPSRGGPKARTP WNNKCGSPK*LSHD*ENGSGGS ASHG/RKVTMNDSTYLNLLGK GTFGKV\ILFRKKATGR*FA\MK \IFRKKVINAKD*VAHNIQPRAG VLPEHPGNPFLQLR*KYAFPDP TTRPVPL*MEYA\NGGELFF\HL S\RERV\FTEERA\RFYGAEIVSA SEVTWHSRGRGNTRDNQSWKT LMLEQKMAHIK\ITDFGL\CKRG ASSDGAT\MKTFCETP\EYLAHE \ILEDNDYGRAVDWWGLGVVM YEMMCGRLPFYNQDHERLFELI LMEEIRFPRTLSPEAKSLLAGLL *\KDPKQRLG\GGPSDAKEVME HRFFLSINWQDVVQKKLLPPFK PQVTSEVDTRYFDDEFTAQSITI TPPDRYDSLGLLEAGPADPASP QFSYSASIRE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20297	50665	A	20414	192	866	LSCRMRMLVLGQNPTLDSIDRS GVRSKCRIFNKLRESFHYNSAE LTISVNMSYNCCSGNFSSRSCG DYLRYPASSRGFSYPSNLVYST DLCSPSTCQLGSSLYRGCQEIC WEPTSCQTSYVEVQAPAKTSC YRPKNLPCSASPCKTTYS\GSLG FGSSSCRSLGYG*GSCYSVGCG SSGFRSLGYGGCGFPSLGYGVG FCRPTYLASRSCQSSCYRPTCGS
20298	50666	A	20415	312	1420	RSHSNAVPSVWNLTLPLDSGPH QSPASTTGPCTNTERSSVPMSCS PPACPTQCVLCSCTEGQIYCGL TTCPEPGCPAPLPLPDSCCQACK DEASEQSDEEDSVQPLHVVRHP QDPCSSDAGRKRGPGTPAPTGL SAPLSFIPRHFRPKGAGSTTVKI VLKEKHKKACVHGGKTYSHGE VWHPAFRAFGPLPCILCTCEDG RQDCQRVTCPTEYP\C\RHPREK WPGKCCKICPEDKADPGHSEIS STRCPKAPGRVLVHTSVSPSPD NLRRFALEHEASDLVEIYLWKL VKDEET*GSGEVKYLAQGHTA RIFHLTQIKKVRKQDFPERGTA LPTARWPPRRSLERLPSPDPGAE GHGQSRQSDQDITKT
20299	50667	A	20416	17	1008	KSGARSLQPQFLRAPEDGGPLS LPNAAMARGPKKHLKRVAA\P KHWMLDKLTGVFAPRPSTGPH KL\RECLPLIIF\LKDQTLSNALT GD\EVKKI\CMQRFIKI\DGKVRT DITYP\AGFMDVI\SIDKTGREFP VL/YLIDTQGVRFCL*HRIYTLR EGQSTSLCKVRKILLWAPKGIP\ HL\VTH\DAR\TIR\YPDP\LIQGE MNTHSRLI*KTGK\IT*FPSKFDH LVTCVMVT\GGA\NLGRNWVLI TQQRRSTLGSF*PLVHVK\DAN GNKLLATSDFSNIF/VVIGKGNK PW\ISL\PRGKGIPPHHLLEERDK RLAAKQSSWVKWGPWVTWSD
20300	50668	A	20417	1	1377	
20301	50669	A	20418	1	2178	
20302	50670	A	20419	158	250	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20303	50671	A	20420	1	860	MDQTVKSLMASEEEYSTKEEK YEKEMKLLEEKLKEAETRAEF VERSVAKLEKTTDDLEETLASA KEETWRFIRPGTRPYWNSATCF LLPGHKMAAEVHKLNPNVSEH DQERWHDAFGNGGADNHSKL QASTRRGGPLSQELLQSLAASL AAGGLTALSAEFTIGKGELMAH DVLWGCAPDEYDDLISGTCSHL PKGKTHDVLTGSDDGRHSNTS LAWGAGVQFNPTESVAIDIAYE GPGSGDWRTDGFIVGGLFCGV NMAVKIS\GVLKDGTGKPVQN* TIQLKAKRNSTTVVVNTLASEN PDEAGRYSMDVEYGQYSVILL VEGFPPSHAGTITVYEDSQPGTL NDFLCAMTES\DARPEALGRFG LYWWKEVARNAS\AVGQNTA AAKKSASDASTSAREAATHAV DAGGFKNAQARTSSPDKAGSA GFKQGFPRGGNGINKRAT*RIK KVACR*SLMASEEEYSTKEEKY EKEMKLLEEKLKEAETRAEFVE RSVAKLEKTTDDLEETLASAKE ETWRFIRPGTRPYWNSATCFLL PGHKMAAEVHKLNPNVSEHDQ ERWHDAFGNGGADNHSKLQA STRRGGPLSQELLQSLAASLAA GGLTALSAEFTIGKGELMAHDV LWGCAPDEYDDLISGTCSHLPK GKTHDVLTGSDDGRHSNTSLA WGAGVQFNPTESVAIDIAYEGP
20304	50672	B	20421	34	800	
20305	50673	A	20422	130	368	RQVITTLYIPYRRRHLSPPDPEQ PLNHKQNRKVNHGGTEFQVVV LPFPKMKINCYRRNQFFLFFFST VKVPVGWSMVPLQAATAGAR L*NSDISPLKSQQTQDKFPSSKP PHIYIKK
20306	50674	A	20423	1	57	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20307	50675	A	20424	85	874	GPRGLVSMAGGSVEVTPSTFTC YLRPPSASPPTPPSHPGLLPRSPA LCSLHTGARTLPLFGGGRCSSA VLPPRPGP/RAGSGSGQRERFHR FQPTYPYLQHEIDLPPTISLSDG EEPPP*QVPCHLQVR\DPKQQL\ ELNRE\SVGAPPNRTIFDSDLMD SARLGGPCPPSSNSG/ISAPTCYG \SGGRMEGPPP\TYSEVIGHLPG GPSFQH\Q\QSSGPPSLLEGTR\L HPHTHSRP*RSAAIWSKEKDKQ KGHPSLGSPGGPGLGLRR
20308	50676	A	20425	3	250	ESVSATEDLAPDAAQGEDNSEI KELL\RENEPLPACNGPAQAQPS PTTERAKSQEEVLPSSTTPSPGG ALSPSGQPSSSVDAA
20309	50677	A	20426	2	393	
20310	50678	A	20427	1066	1824	
20311	50679	A	20428	3	902	
20312	50680	A	20429	1	2163	
20313	50681	A	20430	1	1890	
20314	50682	A	20431	1	2882	MKQQLPVSYLQVIFNHWASRIS GARGAGWGPVRLGRLCADRAL DGESRPGGGGQSGVPASEASQ KAAHGRRLPVPARLLRCAHSA LEPGRGSASSPRNSTTSDNDQPP DYSFSKRCDSHSLGFSLVWESR NLTLPPTSKLLHFSAFHFFIYKC RAEGHKLYKDLKNFLSAVKVM HESSKRVSETLQFIYY\SEWYGH EELKAIVWNNDLLWEDYEEKL ADQAVRTMEIYVAQFSEIKERI AKRGRKLVDYDSARH

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20315	50683	A	20432	1	1791	MPGARTSSSGASENHRARGQG GGPQGVGRMAEGKAGGAAGL FAKQVQKKFSRAQEKVLQKLG KAVETKDERFEQSANNFYQQQ AEGHKLYKDLKNFLSAVKVMH ESSKRVSETLQEIYSSEWDGHE ELKAIVWNNDLLWEDYEEKL\ ADQAVRTMEIYVAQFSEIKE\RI AKRGRKLVDYDSARHHLEAVQ NAKKKDEAKTAKAEEEFNKAQ TVFEDLNQELLEELPILYNSRIG CYVTIFQNISNLRDVFYREMSK LNHNLYEVMSKLEKQHSNKVF VVKGLSSSSRRSLVISPPVRTAT VSSPLTSPTSPSTLSLKSESESVS ATEDLAPDAAQGEDNSEIKELL EEEEIEKEGSEASSSEEDEPLPA CNGPAQAQPSPTTERAK\SQEE VLPSSTTPSPGGALSPSGQLSSS ATEVVLRTRTASEGSE\RPKKT ASIQRTSAPPRRPPPPRATASPRP CSGNIPSSPTASGGGSA\TSPRAS LGTGTASPRTSLEI*PNPE\PPEK PVRTPEAKENENIHNQNPEELC TSPTLMTSQVASEPGEAKKME DKEKDNKLISADSSEGQDQLQV SMVPENNNLTAPEPQEEVSTSE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20316	50684	A	20433	158	1830	QLQSKMKLFWLLFTIGFCWAQ YSSNTQ/SKGRTSIVHLFEWRW VDIALECERYLAPKGFGGVQVS PPNENVAIYNPFRPWWERYQP\ VSYKLCTRSG\NEDEFRNMVTR CNNV\GVRI\YVDAVINHMCG\N AVSAGTSSTCGSYFNPWKLRTF PAIP\YPGWDFNDGKC\KTGSGD IENYNDATQVRDC\RLTGLLDL ALEKDY\VRSKIA\EYMNHL\IDI GVAGFRLDASKHM\WPGDIKAI L\DKLHN\LNSNWFPAGSKPFI\F QEVIDLRVGEPNLKASDYFGNG RVTEFKYGAKLGTVIR\KWDGE KMSYLKKWG\EGWGF\MPSDR ALVFVDNHDNQRG\HGAGGASI LTFW\DARLYKMA\VGFMLAHP YGFTRVM\SSYR/WAKHSFKKG NDVNDW\VGPTQINNG\VIKEV TINPRH*LVGND\WV\CEH\RWR \QIRNM\VNFRNGSGMAQPFLQ NWYDNGSNQVAF\GRGNR\GFI VFNK*WPVIFI*LCKPGLPAGSY CDVISGDKVIGNCSAIKIPVSVD GKAHFSMSNSAEDPFLAIHAES KIVKFKIKCKSAKQKKKKKKG RPF
20317	50685	A	20434	3	383	
20318	50686	A	20435	1	378	CASGSSGWRPVLWAGAFTMAS AELDYTIEIPDQPCWSQKNSPSP GGKEAETRQPVVILLGWGG\SK DKNLVKYSAIYHKRKLLELLFD YEIEKEPPAFSLSSATVASCCTA TCWSSCRPVASAACV
20319	50687	A	20436	1	558	CASGSSGWRPVLWAGAFTMAS AELDYTIEIPDQPCWSQKNSPSP GGKEAETRQPVVILLGWGGCK DKNLAKYSAIYHKRGCIVIRYT APWHMVFFSESLGIPSLRVLAQ KLLELLFDYEIEKEPLLFHVFSN G/VRHAVPLTCWELLQTRRFCR LRVVGTIFDSAPGDSNLVGGSA GLGSHPGARG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20320	50688	A	20437	78	1237	CWSHSDTYWPRTPRPPPPGRPG PVVHLAQPVLHPEAGIPEFWES GSPGQTRGAALVLTVHICVSEN SPSPGGKEAETRQPVVILLGWG GCKDKNLAKYSAIYHKRNTAT LQPPLTYMRGWGLFLTGAPAD QYLIQIKRISQWLRGCIVIRYTA PWHMVFFSESLGIPSLRVLAQK LLELLFDYEIEKEPLLFHVFSNG GVMLYRYVLELLQTRRFCRLR VVGTIFDSAPG*QQPG*GL\SGP GQPSWERRARPMLRLLLLVAF ALGGSSCFHVLLAPITALFHTHF YGQAYRTRALAWPELYLYSRA DEVVLARDIERMVEARLARRV LARSVDFVSSAHVSHLRDYPTY YTSLLCRTSMRKLRPLLKAIAPS HLCSQKINALKPSP
20321	50689	A	20438	3	427	
20322	50690	B	20439	101	1099	
20323	50691	A	20440	733	2228	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20324	50692	A	20441	582	2595	PPPPVRRRDPGPAVRPAGAMA KKSAENGIYSVSGDEKKGPLIA PGPDGAPAKGDGPVGLGTPGG RLAVPPR\ETWTRQMDFIMSCV GFAVGLG\NVWRFPYLCYKNG GGVFLIPYVLIALVGGIPIFFLEIS LGQFMKAGSINVWNICPLFKGL GYASMVIVFYCNTYYIMVLAW GFYYLVKSF\TSTLPWATCGNY/ TWKHSPTCVEIF\RHEDC\ANAS LANLTCDQLANR\RSP\VIEFWE NKVLKLSGGLE\VPGALNWE\V TLGLLACWVLVYFCVWKGVK STGK\IVYFTA/THYPYVVLVVL LVRGVLLPGALDGIIYYLKPDW SKLGSPQVWIDAGTQIFFSYAIG LGALTVLGSYNRFNNNCYKDA IILALINSGTSFFAGFVVFSILGF MAAEQGVHISKVAESGPGLAFI AYPRAVTLMPVAPI\WAALFFF MLLLLGLDSQFVGVEGFITGLL DLLPASYYFRFQREISVALCCA LCFVIDLFMG\TDGGMYVFQLF DYYSASGTTLLWQA\FWECVV VAWVYGADRFMDDIACMIGY RPCPWMKR\CWSFFTPLVC\MGI FILNVVYYEPLVYKQN/TYVYP WWGE\AMG\WPFALS\SMLFVP L\HLLGLPSLRAKGHPWLKRW QH\LT\QPIWGLHPL/EELPRFRD ADVQGTLTHP*TPVSESSKVV\V
20325	50693	A	20442	1	363	MGKRGLILLIEACIAIAQPLQRW FVVPPRAGMPVTYD/HSNSAAG SPPV*NARLCSPGEKVLCRSQT GNFPHTPQEQAVPSAWNALPV QP*SH/GPSPMLVPCRCVCPMET RVQGSASPGGQG
20326	50694	A	20443	747	1389	LGAVQLCPPPCRPCHRAALPGG LFPPPRPPHSPQAGPLHPQWTQ* PGSVGSPTQLSPEASRPQWPPT A\GSPRAGVHPGHGQA*SADISS AKQWTQVGPAGQGGSKFGKT KVPWQSGPLGWDPGARAGQG VG*ETRGPSLQLAWSDGEGV/P GWRGSYRGHRRGP*PPAPWPW SGGHPGSPMEWPCPGTELQMR NRAGSRDLHSLGRAPPAATAPS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20327	50695	A	20444	90	1181	RAEPHLQVPGVPGSAQKPQGT QMAPVSPRRGPQRGWHTLGAQ RLLPQAALSSPAFPQHPGGRWA PRRRGQSSQGHSPESLPSERAQP HWNHPQLLSPCTPLSCP*GGPR QA/EQAGDSGSGTWVGLGAAP SERGAPMSARHWLRAPGRRPIF LLSALW*TPAWGGGPAASRSP GGPSSRVVGCPLCPLAPGPVPS VE*RPMSTKDLPPPSPR*KP/PA GPAPV*/SPKAVGIPAWERPPTR PETEGAGGSCAERLLAPVEMAP VSRGQRRDPEPGSRHG/DPPTDT AALGGPRPPQHLPRTRQHWEI* GPGAPPTDTAALGDLRPQSPGL LMELG\PISRDPHGRGPWQGPV GKLWPGGQGSCPQSPPV
20328	50696	A	20445	2	957	IPSRKDHEKAEFEVHEVYAVDV LVSSGEGKVRRVPELAKRGD*E CSPDQMLLKLLFQAKDAGQRT TIYKRDPSKQYGLKMKTSRAFF SEVERRFDAMPFTLRY*AMIVL GTSLTHRPYTQEHFFLSLPA*TC SVHVLTPSLSLPISFSLKVM*KS NPKHDFCLRVGAILKYEQNGK T*WGVKDTSEYHLPCQ\AFEDE KKARMGVVECAKHELLQPFNV LYEKEGEFQKELHFGFPDYKISF L*VQKS*V*QRNFLSKHIFIFAIG EFVAQFKFTVLLMPNGPMRITS GPFEPDLYKSEMEVQDAELKA LLQSSASRKT
20329	50697	A	20446	85	266	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20330	50698	A	20447	207	1759	LSQRALRLSPRARSFSLSPACPL PCLLALSLALSSRIEGTLTTACG WGRETEAAAAQGKRGCSGGSR KMSGEDEQQEQTIVD/DSLVVT KYKMGGDIANRVLRSLVEASSS GVSVLSLCEKGDAMIMEETGKI FKKE\KEMKKGIAF\PTSISGTIN *PI/CHFSPFERSD\QDYIPPRKGD LVK\IDLGVPCWMGFIANVASH/ SFVVDVAQGTQVTGRK\ADVIK AAHLCAEAA\LRLVKPGNQNT QVT\EAWNKVAHSFNCTPI\EG MLSHSLKQHVIDGEKP*FQNPT DKQK\RAHEKADFEV\HEVYAV DVLVKPQERARPKDAGQRTTIY KRDPSKQYGLKMKTSRAFFSE VERRFDAMPFTLRAFEDEKKA RMGV\VECA\KHELLQPF\NVLY EKEGEFVAQ\FKFTVLLMP\NGP MRITS\GPFEP\DFYK\SEMEV\Q DAELKALLQ\SSAKSEKPQKKK KK\KASKTAGEWPLVAFSAVLE TFRRKWKLGGLEVGPISPACCS CLHPPSHQTPRLCEVQFFFST
20331	50699	A	20448	1	3825	
20332	50700	A	20449	1084	2429	ARERSLRGSPAREREKERKCTA LSE*GEQMERKTNS*TKQTE*N RNEIGPRGAGPPGDAGSGRQPA LRPHVHKQTEKTTRVRTVLNE KQLHTLRTCYAANPRPDALMK EQLVEMTGLSPRVIRVWFQNK RCKDKKKSILMKQLQQQQHSD K/SGEQPLGRRLESGGGCASAA VSACPFLGEPWEIQGELGAPDG VCLYLHSKASLGFEASYFVWD RGFSLSQWQPRVAGSGRCAEP KAAWQCAAPASRAGGLCTPSA AAERSPVEKEGSSDAIECAPPR KAMQTLNHSRPGAPVSKVAEK ARPNSSTYCLLLAPQSLQGLTG TPLVAGSPIRHENAVQGSAVEV QTYQPPWKALSEFALQSDLDQP AFQQLGLLSAGGRSPRDTFRLG ARGPGAPARVPLHLPLPGVSAA P\VSFSESGSLGNSSGSDVTSLSS QLPDTPNSMVPSPVET
20333	50701	A	20450	133	276	
20334	50702	A	20451	2	205	WDTSS*SLRTPRSRQVSTRPRR KKEKLPSKGMFSSVSLPQVLTQ RHQRPTCSWSLCWQPQHLILLR S

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20335	50703	A	20452	182	411	GRAWPAPPTSVTPRLRSPAESP RWPSAEERSSLP/VRGRRPGYG* VSCCGPRAPPGVNGDALRSARP AQLPA*RPQRH
20336	50704	A	20453	786	1208	GVHRGTHGRQKWRPCAPRAQ HSWGPGGRLPAGCRG*AGSCA/ PSLGL*CGAGPQGWGRRDP*TR RRTPRRPPRGPRPRVWMAPPAR SHPWRAAPRSAGAAPRPLGLG GRSGRETRPAPGGELQRPAAAG PPLMSCGWRVVLA
20337	50705	A	20454	385	727	KAMSPVFPRHSKWDLDLSRPLF TSAALLSACKILKLKVDKNKM VATSGVKKSYI*STV*TTREDW TAGRQRTWRCIYSTTEEKEDSG *SPSKGNGEGRGDAT*TTER*RS DTGL
20338	50706	A	20455	568	3382	HPGWVARGPGAGEGHAAGCG PARCQAGGPLQDGGCGGQGHR FGGGHVPEIKGGGFPHAGACAL EERQPR*QP*GVGKRGGGLFHA SSSPSSGGSRTEPAEG*GGAVCR AGDLGHIDDAGDHGDSGK\KE RVEEEGGKPKHVLSTSGVQSD AREPGEESQKADVLEGTAERLP PIRASGLGADPAQAVVSPGQGD GVPGPAQAFPGHLPLPTKVEAK APETPSENLRTGLELAPAPGRV NVVSPSLEVAPGAGQGA
20339	50707	A	20456	762	1245	LRQYSVKMRIVPTILLNFGADP DLRDIRYNTVLHYAVCGQSL\S LVEKL\LEYEADLEAKNKDGYT PLLVARY*QLIPKLVKFLLE\KG ADVNASDNYQRTALILAVSGEP PCLVKLLLQQGGEICNEG\MVD SQLRNMFISMVLLHRYPQFTAS HGK\QKHAK
20340	50708	A	20457	346	608	PKRRGAPLPVIPQSAS*KPKLPM GRPPPPVPSVSPGPLPGSLAIAP HSLEPHLVQSSCLVVPPKTKQS KRKPGRGAQAPTLPNATEFSVC RNDPKEGGRRSP*FPNRLLEPE APPRPSAGESPRPAAA/SPLPCSE EK/PTPQLCARERLAPSAAPPPP PRCGPAPLLEPSAWTPELARRA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20341	50709	A	20458	340	889	SAPFSSGERTPGCPEASPFPGGG GGNARPSGPAPHPPSSAS*KPKL PMGRPPPPVPSVSPGPLPGSLAI APHSPEPQLVQSSCLVVPPKTK QSKRKPGRGAQAPTLPNATEFS VCRNDPKEGGRRSP*FPNRLLE PEAPPRPSAGESPRPAAA/SPLPC SEEK/PTPQLCARERLAPSAAPP PPPRCGPAPLLEPSA\EAEEGGW GAGPLGRALPPPPPGKGLASGQ PGVRSPDEKGADQRQPSGPRLC SAPAPPRRS/PPRRRRPSNFVPED QPHYVPGSASAGPRRSPRPPRR ELGAPSHLP
20342	50710	A	20459	148	397	GHKELVTGTEAIELAHAYETCH AVPRTIAKLVPKTH\LMSESEW RNLGVQQE/RQGWVH\YMIHEP E\P*HFGCSRRPLTQGTQRK
20343	50711	A	20460	139	272	VLKPGGSYSFGSPSCNSSH*LIG FQKWKDVPCEDKFSFVCKFKN
20344	50712	A	20461	440	1167	ARDSLQLSMAQTSSYFMLISCL MFLSQSQGQEAQTELPQAR\ISC PEGTNAYRSYCYYF*WKTRET W\VDADLYCQNM\NSGKLGVC GSPRAEGCLFWPQLI*GGVGT* WTFNVLDLGLQ*PPKRTRRW\H WEQWGPLVSLQSSWGHWEPPS RCLNPG\Y\CVSLDLQSTRISRN WKDVPFVKDK\FSF\VCKVQKT RGQAGKIQCLELTPAITNGVQK LNRTISPTQLNLVTLFSAEFALLI FNSFT
20345	50713	A	20462	3	322	
20346	50714	A	20463	1	420	DLYELVQYAGNIIPRLYLLITVG VVYVKSFPQSRKDILKDLVEMC RGVQHPLRGLFLRNYLLQCTR NILPDEGEPTDEETTGDISDSMD FVLLNFAEMNKLWVRMQHQG HSRDREKRERERQVSW\RCKCG TLQ\QIVLTG
20347	50715	A	20464	1	1446	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20348	50716	A	20465	3	2564	LGAGAACCRLWGVAMPTTQQ SPQDEQEKLLDEAIQAVKVQSF QMKR\CLD\KNKRIGVRHKTML RNMLG\ELRTSMLSPKSYYELY MAISDELHYLEVYLTDEFAKGR KVADLY\ELVQYAG\NIYPQGF YLLVHSLSCNNVKSFPQSR\RDI LKDLVEMCRGVQH\PLRGLFLR NYLLQCTRNILPDEGEPTDEETT GDIRDSMDFVLLNFAEMNKLW VRMQHQGHSRDREKRERERQE LRILVGTNLERLSQVE/WCKCG TL\RQIVLTGILEQVVNCRDALA QEYLMECIIQVFPDEFHLQTLNP FLRACAELHQNVNVKNIIIALID RLALFAHREDGPG\IPADIKLFDI FSQQV\ATVIQSR\QDMPSE\DV VSLQVSL\INL\AMKCYPDRV\D YV\DKVLGNNSGRIFNKLNLEHI ATSSAVSKGNFTRLLGKLPVGH FTNNILT\VL\KLKHFHPLFGYFD YESRK\SMSCYVLS\NVL\DYNT EIVSQDQVDSIMNLVSTLIQ\DQ P\DQPVEDPDPEDF\ADEPEALV ARFIHLLRSEDPDQQYLILNTAR KHFGAGGNQRIRFTLPPLVFAA YQLAFRYKEI\SKVDDKWEKKC QKIFSFCPTKTI\SALIKAEL/AQE LPLRTFSFKGGT*LA/AGELGFG NHG\TVAY\EFMSQGIFSVWKD/ EKSGDFPKAQLGWPFTFGSIGA LFERVEVLSVEEDSWNPLR\TQ
20349	50717	C	20466	23	385	
20350	50718	C	20467	16	435	
20351	50719	A	20468	1	436	
20352	50720	A	20469	1	747	
20353	50721	A	20470	1	864	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20354	50722	A	20471	2	2138	VGRAAAAAAAVAVPLAGGQE GSPGGGRRGSRGTTMVKKRKG RVVIDSDTEDSGSDENLDQELL SLAKRKRSDSEEKEPPVSQPAA\ SSDSETSDSDDEWTFGSHKHKK KGQARTLEQKGTMKKQANKT ASSGSSD/RTDSSAESSAP\EEGE VSDSDSNSSSSSSDSDSSSEDEE FHDGYGEDLMGDEEDRARLEQ MTEKEREQELFNRIEKREVLKR RFEIKKKLKTANKKEKKEKKK* QEEEQEKKKLTQIQESQVTSHN KERRSKRDEKLDKKSQAMEEL KAEREKRKNRTAELLAKKQPL KTSEVYSDDEEEEEDDKSSEKS DRSSRTSSSDEEEEKEEIPPKSQP VSLPEELNRVRLSRHKLERWCH MF\FFAKTVTGCFVRIGIGNHNS KPVYRVAEITGVVETAKVYQL GGTRTNKGLQLRHGNDQRVFR LEFVSNQEFTESEFMKWKEAM FSAGMQLPTLDEINKKELSIKEA LNYKFNDQDIEEIVKEKERFRK APPNYAMKKTQLLKEKAMAE DLG\D\QDKAKQIQDQLNELEE RAEALDRQRTKNISAISYINQRN REWNIVESEKALVAESHNMKN QQMDPFTRRQCKPTIVSNSRDP AVQAAILAQLNAKYGSGVLPD APKEMSKASVGQGKDKDLNSK SASDLSE\DLFKVHDFDVKIDLQ VPSSESKALAITSKAPPAKDGAP
20355	50723	A	20472	438	709	FLSQSWIFKQIRASRTLFLVAFS SNTFTSCRSFCSSSEAMGAGSG RSPELQPRRRRNRKPRAEPSNR AQTPTRTS/LRRCSLRPHRPCAR SR
20356	50724	A	20473	2	1315	ILQKRIGGFLDALVRNSQPARYI NDYQLSNYGLDMLGPSLDPAP MASEELQKDLEEVKVLLEKAT RKTEKSKIETEIKNLQQKSQK KAELLDNEKPAAVVAPITTGYT KGGGGEERGGEAPTSNEAQAT EVRGGAGGGKDKDDGDRER\P RKTRGGRARTE*NNRHEQ*IQI KKRRETEKERRNEKGRRRHKT ATQKRRREERRARRVGEGTRK REQPAHEQEHATTTHTRPPAP/R RTRKTQTHNRKERKKEE
20357	50725	C	20474	43	162	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20358	50726	A	20475	2	363	YEPLDSNKRIGTSSSSYVLCLCS SLAIFSNFMGNLLSFCGVLKLK SLACIH*RFFFN*A**VFIHISSRE Q*FINVCSSCPAFFNPERRNELY ASLLSFVPSALVPIFEDNVSYLF VKSF
20359	50727	A	20476	505	2294	VYSDAKSIYCLLFAHSQRPPCV FNENDPQNSGTVHTVFLVGLTD HRHARAKIESWAGEAAPFTLV AASADKLFGDLHISKYCGRIAV SVFQFQQYCGLCDSTS/SLQQY CGLCGST*HSGSTVASVAGLHI VAVPWPLWQDFTLWQYRGLC/ AQDFTLWQYHGLCGRTSRVAV PWPLWQYFTLWQYCGLCGRTS HC/GQYRGLCGRTSHCGSTVAS VAGLHVWQYCGLCGSTSRC/E QYHGLCGRTS/RLWQYHGLCG RTSYC/EQYRGLCGSTSRCG/MY RGLCGRTSH/WWQYCGLCSSTS YCSRTVA\LWQYFIL\CSTSY/W QQYHGLCGNTSYCGIL\QLQQY SGLCSSTSYWGSTVASVAVLHI AAVLWPLRQYFILQQNRGFCG NTSYCG/SYFILWQYHGLCGST SYCG/SYFILQQYHGLCGSTSYC /EQYRGLCGSTSYC/TQYCGLCG SSSYC/AQNCGFCGNTSYCGSTS /VLQQYHGLCGSTSYCGRTV/V FCGSTSYWGSTSYCGSTVASLA VLHIVAVLCPL*QYFTTNKTKN KTKPGSCHLTYFGGAAGGPSL* APGGVAGTVGSASRSASWGLP EWICCLRDPKSLSFPYWGFEVW
20360	50728	A	20477	2	554	LSSTGGLHAGRLCCSPCLLVIPL KSSQHIF\RVL\NTNIRLGRRKNS PLPITAHLRVWARRYA\HVVLR KADIDLTK\RAGEL\TEDE\VER VITH/ILQNPRQYKDPKTGFFEQ DKKDVK\DGKYSQVPSQLVWD NKLP*KTWEPTERRFRAH*/RGL RHFLGAFRVRGQAHQEPLGRR GRHRWVCPRRK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20361	50729	A	20478	50	774	LFGVVYTGFCLGVWTAGVGGV PGPNFPRPILTLVRGP*GKGVG WVAGPGQLRPTGPWSI*VSHPT PPGPLSISYRAQAAGGQGPAP\I THPQGRQEP*RQLPPGGPLA/RH PPKAPDPARPHP/RQHRGPS/ST APKGRCWQHKQEPSGHPAGHT PGRPG/PPQAPPRPSPWVGPGPQ TPTPCP*DEPHRPPGLQPWRPFS PLAMAPMGRLQALPGLDQRGQ TVSPLRLLGALESLAWLPSAFIA
20362	50730	C	20479	156	908	
20363	50731	B	20480	1	804	
20364	50732	C	20481	278	551	
20365	50733	A	20482	169	1144	INYSLEKHVGALGRVLFSL*RA GCPGMGSTRERGLYLGKHRGS GGIW*ALAGP*KSRGDSVSLTQ GHTHVCSRSPR*ADSPPG/SHLS PVPHSVEVAGHVLVPATRAAV PCSASAGA*QSTYRTGVHQGNP TV*TK/PSRRPSGGVAK*FLPSA VRGEPGAKPLVDDLLPGWSLA THGQPPLVAAPGSGLWGRPAD A*GCETAGGSPCPRSTSRPSGPS GVQGCPLG*AGSGASASRSEPP GSTSCCPRAP\T*PAAPCVPDWP AGDQWRSHGYLPPSREL*G/W MPPSRPATLPQLAFARQRQGNR FDAAFESSGEDFHQMPRVGRM
20366	50734	C	20483	31	90	
20367	50735	B	20484	48	197	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20368	50736	A	20485	5447	5642	PRDMESCYNPGLDGIIEYDDFK LNSSIVEPKEPAPETADGPYLVI VEQPKQRGFRFRYGCEGPSHGG LPGASSEKGRKTYPTVKICNYE GPAKIEVDLVTHSDPPRAH\AHS LVGKQCSKLGICAVSVGPKNM TAQFNNLGVLHVTKKNMMGT MIQKLQRQRLRSRPQGLTEAEQ RELEQEAKELKKVMDLSIVRLR FSAFLRASDGSFSLPLKPVTSQP IHDSKSPGASNLKISRMDKTAG SVRGGDEVYLLCDKVQKDDIE VRFYEDDENGWQAFGDFSPTD VHKQYAIVFRTPPYHKMKIERP VTVFLQLKRKRGGDVSDSKQF TYYPLVEDKEEVQRKRRKALP TFSQPFGGGSHMGGGSGGAAG GYGGAGGGGSLGFFPSSLAYSP YQSGAGPMRCYPGGGGGAQM AATVPSRDSGEEAAEPSAPSRT PQCEPQAPE\MLQRAREYNARL FGLAQRSARALLDYGVTADRR ALLAGQRHLLTAQDENGDTPL HLAIIHGQTSVIEQIVYVIHHAQ DLGVVNLTNHLHQTPLHLAVIT GQTSVVSFLLRVGADPALLDRH GDSAMHLALRAGAGAPELLRA LLQSGAPAVPQLLHMPDFEGLY PVHLAVRARSPECLDLLVDSGA EVEATERQGGRTALHLATEME ELGLVTHLVTKLRANVNARTF AGNTPLHLAAGLGYPTLTRLLL
20369	50737	A	20486	3	346	PQTITDTELWVTLTVEVWDIST/ LFPGN*SHA/TLPSH*NLITLTPL NANI/AIPQHALKGLKPVITRLL QHGLLKPINSPYNSPILPVQKLD KSYRLVQNLRLINKIVSPIHPVV PN
20370	50738	A	20487	1	808	YGTSLLLPWQLITCPLPSH*NLI TLTPLNANI/AIPQHALKGLKPVI TRLLQHGLLKPINSPYNSPILPV QKLDKSYRLVQNLRLINKIVSPI HPVVPNPPAFTSQITQAVSQAL GIQWNLHIPYHPQSSGKVERTN GLLKVHLTKLSLQLKKDWTVL LPLALLRIRACPRDATGYSRFEL LYGRTFLLGPNLIPDTSPLGDYL PVLQQARQAANLLLPTPDPQPH EDTLAGRSVLVKNLTPQTLQPR WTGPHFIIYSTPTAVCLQDPPH

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20371	50739	A	20488	2	513	CCPIASEAQ*TITDAELWVTLTV EAQSLLRVFLSYLPTLTHKYGT SLLLPWQPITCPLPSR*NLITLTP LN/GQYPIPQHALKGLKPVITRL LQHGLLKPINSPYHSPILPVLKP DKAYKLVQNLRLIYQIVLPIHP VVPNPYTLLSSVPPSTTHYSVL DLKHAFFTIPLQP
20372	50740	A	20489	1	1893	
20373	50741	C	20490	1	1806	
20374	50742	A	20491	1	645	MTSGPQINQPKKHLTNFKSEPS DL/FPSSPGCSLPAED*RCPIALE AP*TITQA\RVTLIVEGKSVPLV NTEATQSTLPSFQGPVSLASITV VGIDGQASKPLKTPLLWCQLG QHSFMHSFLVIPTCPVPLLGRDI LTKLSASLTIPGLQPHLIATLLP NPKPPSCLPLLSPHLNPQVWDIS TSLATDIIMPITIRLKPNHPYPAQ RQYPIPQHALKD
20375	50743	A	20492	113	328	LGSGAWGGGDLPWEINPLSSCS LLREKDLLTTSGPQT\TSPRNISP ILNRDPTVQLTWQPLPEPLELW PKAL
20376	50744	C	20493	183	254	
20377	50745	A	20494	1	511	MWKGPKGLDMYGKSSVSPKTS DILGRDTLLLALKVQTVVLQTA CGEGHVAGNCGRPLETEGSLQ LTATKKLRDSVLQPKSPEFCQQ FTRAWNRTQVPDETEAPAGTY AAQSGDLPWEINPLSSCSLLHE KDPPTASGPQT\TSPRNISPILNR VSEVSDHAGTPALVLHP
20378	50746	A	20495	1	1108	MWESLELPGNIFNGFDQNADN DMDDEIQAEVISDGDEEFVGN WNKPRDLVPCILATLALTKRGQ DTAQTMASEGARPKHWQLPGG VGPVGAQKSRIEVWEPLPIFRR MYGKACMSRQKFAAGAGFSW YVPVAVVGAKVHDVNLHMLS FPSKWKLHTCMKFGAVTQIVTS LGRSSCSLLLEKDPPMVLRPTSP RNISPISNLTKETRFIRGPKTPAP VTDWEGSLPLVFNHCRDASLII HPGFRGVRPRRDACLSPSPLAN LINLTFKVYNNRKKLQFLAFTV RQTSAMSPAHKNFQTPEPQRPG IPPEPPPPGACYKC/HEIRPPGQG MPAAQDSS*ATS/LSVRDPTGN WTVQLTWHPLPEPLELWPKAL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20379	50747	A	20496	128	302	TAAARHSSRTSSPRSLLQVLEI WPSGQGMPAAWDSS*AASHL WQPLPEP\LELWPKAL
20380	50748	C	20497	80	106	
20381	50749	A	20498	196	575	
20382	50750	A	20499	1	505	TKETRFIRGPKTPAPVTDWEGS LPLVFNHCRDASLIIHPGFRGVR PRRDACLSPSPLANLINLTFKVY NNRKKLQFLAFTVRQTSAMSP AHKNFQTPEPQRPGIPPEPPPPG ACYKC/HEIRPPGQGMPAAQDS S*ATS/LSVRDPTGNWTVQLTW HPLPEPLELWPKAL
20383	50751	A	20500	372	563	LRSADLPWEINPLSSCSLLHEKD PPTSSGPQT\TSPRNISPILN/PEK KETRFIRGPKTPAPVMD
20384	50752	A	20501	96	505	WS*QP*GLGSHRHHRRRHHRSS SSSSSSSSSSSKSNSDWQPLPEPL ELWPKAL
20385	50753	A	20502	79	207	
20386	50754	A	20503	583	736	
20387	50755	A	20504	99	246	DLIFHQRHSVSAESLTMHGLNN *QTSAKRVVQG\TWQPLPEPLE LWPKAL
20388	50756	A	20505	654	719	
20389	50757	A	20506	71	951	LRSGDLPWEI/NPLSSCSLLREK DPPTTSGPQT\TSPRNISPISNPR/ PKETRFIRGPKTPAPVTDWEGS LPLVFNHSRDTSLIIHPGFRGVR PRRDACLGPSPLAASPTFLGKG PAAPRQTELGPNSSSASAPPPYN PFIASPPHTWSGLQFPSMTSPPP PAQQFTLKKVAGAKGIVKDLIN LTFKVYNNRKKLQFLASTVRQ TPATSPAHKNFQTPELQQPGVP PEPPPRGACYKFQKSGHRAKEC LQPRIPPKPHPICVGPHWKSDCP THLAATPRAPGTLAQGSLTPSQI

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20390	50758	A	20507	1	1010	CSEYEDSSPAPVPATDLSSTLSS SVPQPQDTGTSQQLHPLDPWHE LLRAQELQGATNHKGYSHAEH EHAGLGVQGGNGALAFSNSGH RHAVPTISSGTGRRRTPSSSAFG LLNLHQWFVSGFQAFSDRLKA ALSASLLLRFGDSDWLPSSSAC KCLMLGLHFVIVGNICATLKEK YSSMLHLDVTMKKNGEKRTRL QKRKKGMPPHPAYEDLNIAAIT LPANVVLHQPSGFRTSGQLDPV WWSLDTDAHEIWCQDPGLGSG DFPWEITPLSSYSLLHEKDPPTT SGPQT\TSPRNISPISNPRQRRQV LSMDPKLRHRSRTGKAAFPWC LIIAGTPL
20391	50759	A	20508	3	539	IVDDCGGAFTMGVIGGGVFQAI KGFRNAPVCRLLSEAPLFIYSCS RSVSPTVNVSSERAESRPTLFM AVSLHMAWCLAHIGIRHRLRG SANAVRIRAPQIGGSFAVWGGL FSTIDCGLVRLRGKEDPWNSITS GA\LTGAVL\AARSAPLAM\VGS AMMGGILL/ALIEGVSILL/TR*T ATV
20392	50760	A	20509	3	778	GEQRAALPPAPKECTHPNVTNT LVQAESSDAGVRLRWGRGLTA RPDASAMEEYAREPCPWR\IVD DCGGAFT\MGVIGGGVFQAIKG FRNAPVGIRHRLRGSANAVRIR APSTTGSFAVWGGLFSTIDCGL VRLRGKEDPWNSIT\SGA\LTGA VL\AAP\SGPLAMGGLQQ*WGG ILSAPHLRAFGILL\TR*TA\QQF RKWAPNSLEDP\SQ\LPPKDVT\P APGYP\SYQQYHLRKPLATMGA TSSVPFPDGSTLKGRAGFPG
20393	50761	A	20510	1	231	LRWRVWSLSLLMFRCVRSFFLL VGSWSRWFRSEAADLCGECYS S*GSTSGVVRFSRWACGLAGLR SEAADLAPPTSC
20394	50762	A	20511	318	494	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20395	50763	A	20512	1	1234	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKAYKETY GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPQQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDNSIDSWKNAGRVFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTDYSGSLLRSQM PCADLSILKEAAETLDSTSTRNS AFLGNTHDEAPIVHVFIPSLAYS TNIWSLIFNPTTMIMMCSRDWL SSCENKRVDLAFGLVYSGTPVQ KLEQMKFSPQLGCNHFESKDR NDFLFAPEEIEKDPQGESLLCDF MTKTPKAMATKAKIDKWDLIK LKSFCTAKETTIRVNKQPTEWE KNFAIYPYDKGLISRIYKELKQI YEKKIKQPHQKVDERRLLNLTT DRLTGEKAYRFIKVQVLRVTQ GMKIQRRARSKELQGDGDEIQR WKRLHSPPRLLGEEPHRIIFKLD SANDMHKSAPFSSLQSPLWHQP VMQEVERQYKEKKDLVREGG KCRCQGRPGKVVLTELSLEAR GGWMEDIPSRRTSKCGPWELV SHCVQNWWVLGLTDFKNEAS DPRGVKLQTFTVSVTALKAAR LELLVLPGGLVVSLASGVKLQT FAVSVTAHKRSVDPKTEGAGS GLGQPRKGLSQCSSGPKG*YPE STKNLNKFTRKKSNNPIKRLMK
20396	50764	B	20513	1	531	
20397	50765	A	20514	1139	1562	GALQPTAALWEPLSGLAKARA GTLSLQGSVEGVA*AGTGAAC GACGPDGVPGGRGLGGPRTGS SRPALSHFITEEDKDQRVQDQL GGVWHRMEIHEQHVGKQQEE GDVEDHIPGEDHEGGGEERHIV PKQLLVLVDRFLPK
20398	50766	A	20515	1	1597	
20399	50767	A	20516	461	1601	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20400	50768	A	20517	1	914	MNNLRRAALRAVTLTAKVCSF TPEPARPQTHQKEETPNTSEHQ KEQTPDTPPLRTVTLTARVHGFI LEVSETKNPPIPDTPATREAEGL RSRLAVYSTRDSPCVACSGSYT QAQGSLGRKFQDPVSLFEDLTK NTPEPNLRPITSKPVLVQETLSN FALFLKESNGP\VKVWGSH/IKG LT*KALHGF\HVH\EFG\DNTAR LYQVQGPHF\NPLSQKTTVGPK\ DEESHC*DLGQCDCLTKNGVA DVSI*RFCESHSSGDHCIIG\RTL VVPWKKPDDFGQRVGNE\ESSK T\GNAGKSVWPCGVNWIAQ
20401	50769	B	20518	8	173	
20402	50770	C	20519	13	180	
20403	50771	A	20520	3	486	VTETWKCAGIPHRYRSFESC/IW NPVINSDRMDYAGPVCFKNADI GRCAHEKLRED*DGAAPGEIGI QPEADATPYFATPTPVLTHGPC AAESEPALLIGSKQFGLSRNSHI AIAFDDTKVKNRLTIELEVRTE AEFRLLFYMARINHADFATVQL RNGLPY
20404	50772	A	20521	1	459	
20405	50773	A	20522	2	239	SDSSGSREVDPVAATTMPGAA GVLLLLLLSGGLGGVQAQRPQ QQRQSQAHQQRGLFPAVLNLA SNALITTNATCGEKGPEMYCKL VEHVPGQPVRNPQCRICNQNSS NPNQRHPITNAIDGKNTWWQS PSIKNGIEYHYVTITLDLQQVFQ IAYVIVKAANSPRPGNWILERSL DDV\EYKAWQ*H\AVT\DTEAL TP*PN*SPELGHRQNAQD*\EVI CTSFYSKIHPLENGEIHISLINGR PSADDPSPELLE
20406	50774	A	20523	2	445	
20407	50775	A	20524	1	2765	MGRRRLLVWLCAVAALLSGA QARGTP\PWRGLR/LPGASRYSL YTTGWRPRLRPGPHKALCAYV VHRNVTCILQEGAESYVKAEY RQCRWGPKCPGTVTYRTVLRP KYKVGYKTVTDLAWRCCPGFT GKRCPEHLTDHGAASPQLEPEP QIPSGQLDPGPRPPSYSRAAPSP HGRKGPGLFGERLERLEGDVQ RLAQTYGTLSGLVASHEDPNR MTGGPRAPAVPVGFGVIPEGLV GPGDRARGPLTPPLDEILS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20408	50776	A	20525	2	363	RFTKVEMKEK\MLSAAREKGR VTHKGKPISLKADLSAETLQAR REWGPIFNILKEKNFQPRISYPA KLSFISEQEIKYFTDKQMLRDFV ITRPALKELLKEALNMERNNW YQPLQKHAKL
20409	50777	A	20526	1	1566	
20410	50778	A	20527	1	1604	MAILFEMRLGQQSSAKFPGFQS SFFPVIPVNKPSGKFKRDRAHFS STRLLWPDCQISQLWGGYLRK KGSSPSQGLIDKTPSPWKKAPR ERGGCGRSFSRFKHPCLTALKR AADLPAQHSSSAKDTSQKGPTD TSYRRALAGIWQVPPLGRSFQK KDQAAIFAVVQPLQVIPRQTGS GVDLQQTSADWQQRGLTVRR KTNKQKGIACSLKDPIRGHQHQ RPKDHNFSPAREQNWTENEFD KLTEVGFRRWVITNSSELKKHV LTQCKDAKNLERSLEELLTRIPS VEKNINDLMELKNTARELREA YTSFNSPIDQAEERISVIEDQFN KINREDKIREKRIKRNKQSLQEI WDYVKRPNLQLIGVPESDKEN GTKLENTLQNIIQENFPNLAREA NIQIQEI\QRTPQRYSLRRATPRH IISV/RFTKVEMKEK\MLKAVRE KGR\VTHKGKPIRLTTADLSAET LQARRQSGGQYFNIL*RKGIFQP R\ISYPA\KLSFISEGEIKYFIDK\Q MLRDF\VTTRDWPALKEHQAC
20411	50779	A	20528	58	1081	SSMAKPC\GVRLSGEARKQVEV FRQNLFQEAE\EFLLR\FLPQKII Y\LNPASFQEDFPFNVA*/LLNLS SGAPLGHPPIPRPLHPKDDEM\E TDKAGRRKEVP*SVGFFPWGN* GKFL\SLVCPGLKPE\VWDFSKR NCILGDLHWIQTPDSPRFEDGN DFGGSQSRKKVLEKG*MPVKT KV\EAF\QTTISKY/FSSERGDAC GPRPPKETHVMDYRALVHERD EAAYGELRAMVLDLRAFYAEI VKSSGIGAHVSFKVQNIHSSYC SGPTVSPTCVTGLPASQSPDSG AQLASSSGSHTCAAGGAACQS RALRLHSSALGWSMGLGTVEQ GAALIEEVQAAQEPTEG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20412	50780	A	20529	1632	1932	KEGCELCRCCCRPGPPASSHGQ PHHVFPH/VLSMASPWAVSPSS VNVSQFFIC/TCQDAKTEWLDC KHVVFGKVKDGMNIVEVMEH LGSKNGKISNQQEDHHC
20413	50781	A	20530	245	740	GAWKARSDCSSNP*NYVNRLE LFADKVPKTAEKF\QALSTGEK GFGYKGSL\FHRIIPGF\TCQSGD FTRPYSIGGKSHLPGRNLMTRT FILKHTGPGILSMANAGPSVNV SQFFI\CPAKMPRTEW\LDCKHV VFGKVKDGMNIVEVMEHLGSK NGKISNQQEDHHC
20414	50782	A	20531	135	1427	GKPTFASRQQPLAEECPASSAL QRRWLWRWRWWLRRRRRQR RSSGSCQGQPAGPLGGPPANRG AAPQGSMAMNYNAKDEVDGG PPCAPGGTAKTRRPDNTAFKQQ RLPAWQPILTAGTVLPIFFIIGLI FIPIGIGIFVTSNNIREIEIDYTGT EPSSPCNKCLSPDVTPCFCTINF TLEKSFEGNVFMYYGLSNFYQ NHRRYVKSRDDSQLNGDSSAL LNPSKECEPYRRNEDKPIAPCG AIANSMFNDTLELFLIGNDSYPI PIALKKKGIAWWTDKNVKFRN PPGGDNLEERFKGTTKPVNWL KPVYMLDSDPDA*WIHK\DDFI VWMRTAALPTFRKLNRLIQRK SDLHPTLPAGRYSLNV\NAYYP VHYFDARKRMIMSAISWMGGK NPFLGMAYFAVGAISFHLGVAL LGINHKYRNSSNTADITI
20415	50783	A	20532	1	370	
20416	50784	A	20533	1	1104	LREFANFDFDIWRKKYMRWM NHKKSRVMDFFRRIDKDQDGK ITRQEFIDGILSSKFPTSRLEMSA VADIFDRDGDGYIDYYEFVAAL HPNKDAYKPITDADKIEDEVTR QVAKCKCAKRFQVEQIGDNKY RFGDSQQLRLVRILRSTVMVRV GGGWMALDEFLVKNDPCRAK GRTNMELREKFILADGASQGM AAFRPRGRRSRPSSRGASPNRST SVSSQAAQAA\SPQVPATTTPK GTPIQGSKLRLPGYLSGKGFHS GEDSGLITTAAARVRTQF\ADS KEGLPSRPGSSSLEAKFGSR\AS SRRGSDASDFDISEIQSVCSDVE TVPQTHRPTPRAGSRPSTAKPS KIPTPQRKSPASKLDKSSKR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20417	50785	B	20534	527	4627	
20418	50786	A	20535	37	315	
20419	50787	A	20536	1314	1577	HGSGSAPTCRWPRTQGRCREIC ADGFSGVMRNCTG*EAASGR* CKSFVHVYLQLRCACSVCHSA GSDSFQLQRSPHTPSTCTHALV
20420	50788	A	20537	1	1652	MQATKTESGRNGKPGQPSNRC HYLLNQGWVANSGKGGRTNIP DKELKSGDDPENVHITSFQYLA LAAFPRGRARDLQLAMTEPPHP SVGSCAARASLTSAAPCSTAPSP INHPKAEECGCTARDWQAAPP AARVRDPLGEASWAPESEYVC NCSVVGSLNVNRCNQTTGQCE CRPGYQGLHCETCKEGFYLNY TSGLCQPCDCSPHGALSIPCNSS GKCQCKVGVIGSICDRCQDGY YGFSKNGCLPCQCNN\RSARCD ALTGACLNCHENSKGNHCEEC KEGFYHSPDATKECLRCPCSAV TSTGSCSIKSSELEPECDQCEDG YISPNCNKCENGYYNFDSICRK CQCHGHVYLISTPKICKPESGEC INCLHNTTGFWCENCL*GYVH DLEGNCIKKEVILPTPEGSTILVS NASLTTSVPTPVINSTF\TPT\TL* TIFSVSTSENSTSALADVSWTQF NIIILTVIIIGVVLLMGFEGAGY MYRENQNRKLNAPFWTIELKE DNISFSSYHDSIPNADVSGLVED DGNEVAPNGQMTLTTPIHNYK
20421	50789	A	20538	1	177	
20422	50790	A	20539	1	480	
20423	50791	A	20540	410	896	FSCLKRMHIKAMPEDAKGQDW IALVKAAAAAAAKNKTGSKPR TSANSNKDKDKDERKWFKVPS KKEETSTCIATPDVEKKEDLPTS \SETFGLHVENVPKMVFPQPEST LSNKRKNNQGNSFQAKRARLN KITGLLASKAVGVDGAEKKED YNETAPMLEQV

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20424	50792	A	20541	1	1526	LKDEEDFFDFKAGEEVLARWT DCRYYPAKIEAINKEGTFTVQF YDGVIRCLKRMHIKAMPEDAK GQVKSQHPLSWCCPIDPAGSCN QSMGSEDWIALVKAAAAAAA KNKTGSKPRTSANSNKDKDKD ERKWFKVPSKKEETFNLLLATP DVE/RRKEDLPTSS/EKHL*GLH VRRNVPKMVFPQPESTLSNKRK NNQGNS\FQAKRARLNKITGLL ASKAVGVDGAEKKEDYNET\A PMLEQA\ISPKPQSQKKNEADIS SSANTQKPALLSSTLSSGKARS KKCKHESGDSSGCIKPPKSPLSP ELIQ\VEDLTLVSQLSSSVINKTS PPQPVNPPRPF\KH\SERRRRSQR LGTLP\MPDDSVEKVSSPLSSPL D/EGKVFS/LSSSSKISQESSS/IPE VPDVA/HICPLEKLGPCLP\LDLS RGSEVTAPVAS\DSSYRNECPRA EKEDTQMLPNPSSKAIADGRGA PAAAGISKTEKKVKLEDKS\STA FGIRSWDFSALLMKIPSYSPISLS GLPES
20425	50793	A	20542	363	1187	FHITMCGICCSVNFSAEHFSQDL KEDLLYNLKQRGPNSSKQLLKS DVNYQCLFSAHVLHLRGVLTT QPVEDERGNVFLWNGEIFSGIK VEAEENDTQILFNYLSSCKNES EILSLFSEVQGPW\AFIYYQASS HYLWFGRDFFGRRSLLWHFSN LGKSFCLSSVGHPNIWNWQISG KKFQHLDFFRIDLKSTVISRCIIL QLYPWKYISRENIIEENVNSLSQ ISADLPAFVSVGSQMEGQTVSL EKPVVPLNMDVATSWHWETH AVFFPCATYR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20426	50794	A	20543	1140	2372	CCHKLHWRLIAVIFPMCHLQER YFKSFLLMYT*KEVIQQFIDVLS VAVKKRVLCLPRDENLDSQME VLENV**GKANVGNPVFWGGL D/CPWLLATLLDRHIPLDEPLVL LNVAFIAEEKTMPTTFNREGNK QKNKCEIPYPKNFSKDVAAAA ADSPNKTCQC\PDRITGRAGLK ELQAVSPSRIWNFVEINVSMEE LQKLRRTRICHLIRPLDTVLDDS IGCAVWFASRGIGWLVAQEGV KSYQSNAKVVLTGIGCRWSNL QGYSPSSVSAFKSHGLGRIGIKE IMMELGRISSLEILGRDDR\VIG DHGKEARFPFLG*/RMLSPFLNS SARFGEKANLDFTPRGIGEKLPF NALQPVELG\LTASALLPKRAM Q\FGSRIAKMEKINEKASDKCG RLQIMSLENLSIEKGTKL
20427	50795	B	20544	70	464	
20428	50796	A	20545	18	552	
20429	50797	A	20546	1	1257	
20430	50798	B	20547	223	342	
20431	50799	A	20548	9	5293	KIHRHRLSPATEKGAASSGEGD KDPPPPAHEDIAVKGTATAAGT GPGTGAAAAAAAAAVPPPHPNI RALQTQAPQQIPRGPVQQPLED RIFTPAVSAVYSTVTQVARQPG TPTPSPYSAHEINKGHPNLAATP PGHASSPGLSQTPYPSGQNAGP TTLVYPQTPQTMNSQPQTRSPF FPKGLKIQPP\RATIPNSKSFPFV PGAQTPTAVYQG*FRHIM\M\V NHLPLPYPVPQGPQYCIPQYRH SGPPYVGPPQ
20432	50800	A	20549	1	78	
20433	50801	A	20550	1	2805	MAKGFYISKSLGILGILLGVAA VCTIIALSVVYSQEKNKNANSS PVASTTPSASATTNPASATTLD QSKAWNRYRLPNTLKPDSYRV TLRPYLTPNDRGLYVFKGSSTV RFTCKEATDVIIIHSKKLNYTLS/ QGHRVVLR\PPDIDKTELVEPTE YLVVHLKGSLVKDSQYEMDSE FEGELADDLAGFYRSEYMEGN VRKVVATTQMQAADARKSFPC FDEPAMKAEFNITLIHPKDLTAL SNMLPKGPSTPLP
20434	50802	A	20551	1	239	
20435	50803	A	20552	1	654	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20436	50804	A	20553	161	3193	GSLSRLPTITMAKGFYISKSLGI LGILLGVAAVCTIALSVVYSQE KNKNANSSPVASTTPSASATTN PASATTLDQSKAWNRYRLPNT LKPDSYQVTLRPYLTPNDRGLY VFKGSSTVRFTCKEATDVIIHS KKLNFP\LSQGHRVVLRGVGGS QPPDIDKTELVEPTEYLVVHLK GSLVKDSQYEMDSEFEGELAD DLAGFYRSEYMEGNVRKVVAT TQMQAADARKSFPCFDEPAMK ARF\NITLIPPQGT
20437	50805	A	20554	3	429	
20438	50806	A	20555	3568	4012	VLSTSFPGTELNPPISPLAVNSTE LLKGELSLSSLGVLSLSDTSVPN SVSNSFLLGLRKRLGRGVGISCS NALSALDLAACNFSLMRPLME NSAKPVLEVEGIGG/TAFDAGA GIALSDHFIKLISWYDNEFGYSN RVVDLMAHMASKE
20439	50807	A	20556	1	1211	QTAASSFASPGEPHRSNTMGKV KALVNGFDRIGRLVTRAAFNSG KGDIVAINDPFIDLNYMVYMFQ YDSTHGKFHGTVKAENGKLVI NGNPITIFQ\ERDPSKIKWG*H\G AEYVV\ESTG\VFTTM\EKAGAH FAGGSQKGHSSFAPSTEAIMFM MKVNYEKYDNSLKIISNASCTT NCLAPLAKVIHDNSGIVERLMI TVHVITTTQKTVDGPCRKLRPD GHRALQNIIPASTSTAKAMVKV IPELNKKLTGMASHVPTAKVLV VDPTCH/LGKPAKYYDIKKMM KQASEDPIKGILGYTEHQIVSSD FNSDTQSSTFDAGAGITLNDHF VK\LISWYDNEFGYSNSVVDLM AHVASKELSGYSLKVSFAVQK LFSLIRSNLSIIAFDAIVFGVFVM KSLPVSICRM
20440	50808	A	20557	1	300	PTANVSVVDLTCRL*KPAKYD DIKKVVKQASEGPLKGILGYTE HQVVSSDFNSDTHSSTFDAGAG IALNDHFVKLISWYDNEFGYSN RVVDLMAHMASKE
20441	50809	A	20558	1	3399	
20442	50810	A	20559	1	3126	
20443	50811	C	20560	298	435	
20444	50812	A	20561	1	888	
20445	50813	B	20562	1	4536	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20446	50814	A	20563	37	3900	LGLGLSMLVGQGAGPLGPAVV TAAVVLLLSGVGPAHGSEDIVV GCGGFVKSDVEINYSLIEIKLYT KHGTLKYQTDCAPNNGYFMIP LYDKGDFILKIEPPLGWSFEPTT VELHVDGVSDICTKGGDINFVF TGFSVNGKVLSKGQPLGPAGV QVSLRNTGTEAKIQATATQ\PG GKFAFFKVLPGDYEILATHPTW ALKEASTTVSVTNSNANAASPL IVAGYNVSGSVRSDGEPMKGV KFLLFSSLVTKED\A
20447	50815	A	20564	1	310	EEETVPTTAGASPGPPRNKKNR ELRPQRPKNAYILKKSRISKKPQ VPKKPREWKNPEPSAAAS*GGE GQAHGGPAICPGQICALSQTPG LPGNSLSPRSPVGK
20448	50816	A	20565	3	267	
20449	50817	B	20566	267	560	
20450	50818	A	20567	1	429	LIGLDPEPLAEVDVISLEQGRRK QIERLGYDPQAKAPFQPKPKQK GRSSTASLVKRKRKVMDEE\NR VK*TIGNGPGLPKGCTLPACAL CPCQPAHFLTLCPVSLPSPVPQD KVRQSLQQQHHKEAK/APKPTG ARPSALDRFVR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20451	50819	A	20568	2	1951	FKPTVWQLRGVLHVDRLFVWA SMETAPKPGKDVL\SKKDKLQT KRKKP\RRYWEEETVPTTAGAS PGPPRNKKNRELRPQRPKNAYI LKKSRISKKPQVPKKPREWKNP ESQRGLSGAQDPFPGPAPVPVE VVQKFCRIDKSRKLPHSKAKTR SRLEVAEAEEEETSIQSLLRSEL LLAEEP\GFLEGEDGEDTAKICQ ADIVEAVDIASAAKHFDLNLRQ FGPYRLNYSRTGRHLAFGGRRG HVAALDWVTKKLMCEINVME AVRDIRFLHSEALLAVAQNRW LHIYDNQGIELHCIRRCDRVTRL EFLPFHLLLDTASETGFLTYLDV SVGKIVAALNARAG\RLDVMSQ NPYNAVIHIGHSNG\TASLWESS YGREPLAK\ILC\HRGLGSGAVA \VDSYRHVTWATSGP*DHQLED LFDFARGRY\QPLEHSGPCPMG AGHLAFSQRELL/VLAGLGDVV NIWAGQGKASPP\SLDRPYFTH RV*GPVHGLQFCPFEDVLGVG HT*G\ITSML\VPGAGEPNFDGL\ ESNP\YRSRKQRQ\EWEVKALL EKVPAELICLDPRALAEVDVISL ETGKRRKQIERLGYDPQ\AKAP F\QPKPKQKG\RSSKA\TLVKRK RKVMIEDHKG/DKVRQSLQQQ HHKEAK\AKPTG\ARPSALDRF
20452	50820	A	20569	1	437	
20453	50821	A	20570	157	425	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20454	50822	A	20571	207	1562	LVIVFFYPQHTAPGPPLTVLNQ AMHARGPHGQLSPALPLASSVL MLLMNLAHLGQPWMLGPLTW HISPFSLPVHRLLTHALGHTALP GLLLSLLLLPTVGWQQECHLGT LRFLHASALLALASGLLAVLLA GLGLSSAAGSCGYMPVHLAML AGEGHRPRRPRGALPPWLSPW LLLALTPLLSSEPPFLQLLCGLL AGLACILCLSPGPVGMCGFCG WVPGKEVAQRGEGPSNTKEPC THIAWPVAWAHPWLLLVFLDR PPCPGQTDAAGAFRWLEPSERR LQVLQEGVLCRTLAG\GMPVQ VVGTVAGLPVRPSSLP/SSSRPPI PGPPYVASPDLWSHWEDSALPP PSLRPVQPTWEGSSEAGLDWA GASFSPGTPMWAALDEQMLQE GIQASEVGSPGIGAGVALTLPTS PPTPNRLQQLERMGFPTEQAVV ALAATGRVEGAVSLLVGGQ
20455	50823	A	20572	460	916	AHSPRDHPWTVLNQAMHARGP \HGQ\LSPALPL\ASSVLMLLMST LWLVGAGPGLVLAPELLLDPW QVHRLLTHALGHTALPGL\LLS LLLLPTVGWQQECHLGTLRFLH ASALLALASGLLAVLLAGLGLS SAAGSCGYMPVHLAMLAGEG HRPRRPRGALPPWLSPWLLLAL TPLLSSEPPFLQLLCGLLAGLAY AAGAFRWLEPSERRLQV\LQEG VLCRTLAGCWPLRLLATPGSLA ELPVTHPAGVRPPIPGPPYVASP DLWSHWEDSALPPPSLRPVQPT WEGSSEAGLDWAGASFSPGTP MWAALDEQMLQEGIQA\SLL\D GPAQEPQSAPWLS\KSSVS*MR LQ\QLERMGFP/TTEAAVVALA\ ATGRVEGA\VSLLVGGQSGT\ET LVTHGKGGPAHSEGP\GPPWAN CPQHCLLASSVLMLLMSTLWL VGAGPGLVLAPELLLDPWQVH RLLTHALGHTALPGLAPEPAAP AHCGLAAGVPPGHAEIPACLSP ARPGFWAAGSAAGRPWAVQCS RQLWIHACPPGHAGWGRTPP
20456	50824	A	20573	174	401	CTVVFSVLAELSCTSRFCPNMW TPLREPMTENGRWGLSVRVLE HGGNQSNSACGPEPPEGEMGS* LEED*LPALIP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20457	50825	A	20574	450	1029	ATQLPPQPWQTPAALGWAAAT SLMPYRAPSPPARAQHPPALCL APPPPLWLQLPHLEASHSLVEA RPNPPVSTLAQQGIQPSPRHLPR CPSLRPRQQPPQQVP/PQPAAPT PTATITSTGPSLFASIATAPTSSA TTGLSLCTPVTTAGAPTAGTQG FSLKAPGAA\PAPPQQHPPLPPP PPPPPPAAAPPALP
20458	50826	C	20575	115	276	
20459	50827	A	20576	3	307	ASRLGPREGGARKNPGGPCSAT QYISVPSP\GAASFPVLGSQSLLT TVSPPLPA*P/LAMAL*PRPLCA PGPSPRSPRLRSPLPPSFFSRGRR RLSLLQPWSE
20460	50828	A	20577	2	388	
20461	50829	C	20578	244	487	
20462	50830	B	20579	5	569	
20463	50831	A	20580	204	676	RTDQYPQRGETEEGLEGQLLPH RQLPGGLGAHRGPDPACGLRD SSRGVPLAGSPLRVR*GRGHDL RQSGGVRPGGGSNRGLVVAGD ARGRAAPLAGGVPAAADRSRL PGVPAAREPHGPTPAPDPDSAA EPGAVSTLRAEPTPQPVVSTGC CSSTWN
20464	50832	B	20581	1	1413	
20465	50833	B	20582	60	224	
20466	50834	B	20583	8	2469	
20467	50835	A	20584	841	1436	HHQVPLPVGRERGGKRGPGSW ETCLSVLGPAIPPSEPWPVSPSW VHSLVPGEQALPLICSQPPMAP QWPETGPGPHLVHRTCRVCLN WQGMTRTRGYQAGPSSRRTIPT PAQLPAPLASLPPRQDPPSSPAE PPSGRFSMEPWWEPARHPPGSP AAPCSSHRIT/APPTPSLAAQPG/ PVGSNPPLSPEGLCLAGTPACG W
20468	50836	A	20585	1799	5195	SKGNGSPSTTQTQTPRAAPDGS LSEETPAGPPTCSVPPASALPRQ QYAKSLPVSVPVWGFKEKRTE ARSSDEENGPKPKPASVDANTK LTRSLPCQGSLKRATSCERAGK AVGEEVSGYSLHGCSKERRRRP RLKKEGGSGEPGVGYLFISVLV NSNSELIRLINNAIKNDLASRNP TFMCLALHCIANVGSREMGEA FAADIPRILVAGDSMDSVKQSA ALCLLRLYKASPDLVPMGEWT ARVVHLLNDQHMGV

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20469	50837	A	20586	8	268	SRSSRTWSPIPEKEKTKLQKQR EDELIQKIHKLVQKRDFLVDDA EVERLREQEEDKEMADFLRIKL KPLDKVTKSPPI*QSQRAHL
20470	50838	C	20587	50	196	
20471	50839	A	20588	16	1263	SLSSRCMMVAEQGCALEPCQG LSHGAALGVLMVVFP/VSSLQQ DQLDIIS\MAETT\MMP\EEIELE MAKIQRLREVLVRRESELRFMS FEEQYNEDHKKGVIDLFTADSL KTMTRLVTGVWLAYLAATASN PLQEGEHAGEQIGAGGCRSRLE GGALTWDPVLLPPVRISRMLLL LLIPGELPGIAFKLMNPTKAEPM HMFIILEPFDLRKLMDDIQLCK DIMDLKQELQNLVAIPGCTRSM MLVSAQLLEGLRKLIIMAEDKG ADMSRAQSRSKRPPKMLICLLV DVFFPEKEKTKL\QKQREG*AN PRRFHKLVQKRDFLV\DDAEVE RLR\EQE\EDKEMADFLRIK\LKP LDKVTKSPASSRAEKKAEPPP\S KPTVAKTGLALIKDCCGATQC NIHVSPHVGCPGPWGPPPTLLS
20472	50840	A	20589	31	339	
20473	50841	A	20590	1	1179	
20474	50842	A	20591	1	1167	PARSMAATSLMSALAARLLQP AHSCSLRLRPFHLAAV/RGNLSL GQVGVQCCNHGLLQP*PPGLK* SSHLSLNEAVVISGRKLAQQIK QEVRQEVEEWVASGNKRPHLS VILVGENPASHSYVLNKTRAAA VVGINSETIMKPASISE\EELLNL INKL\NNDDNVDGLLVQLPLPE HIDERRICNAVSPDKDVDGFHV INVGRMCLDQYSMLPATPWGV WEIIKRTGIPTLGKNVVVAGRS KNVGMPIAMLLHTDGAHERPG GDATVTISHRYTPKEQLKKHTI LADIVISAAGIPNLITADMIKEG AAVIDVGINRVHDPVTAG\PGL VGNVDFEGVRQKAGYIT\PVPG GVGPMTVAMLMKNTIIAAKKG AEA*RSEKVLKSKELGVATN

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20475	50843	A	20592	1	1963	MAASDVNCGACFAELQGNATA NTPGGTSHHTHLAIHGSCHDSQ AKEAGRKRQPWPPPDGRSEPAP DSHPHLSPEALGYFRRALSALK EAPETGEERDLMVHNIMKEVE TQALALSTNRTGSEMLQELLGF SPLKPLCRVWAALRSNLRTVAC HRCGVHVLQSALLQLPRLLGSA AEEEEEEEDGKDGPTETLEEL VLGLAAEVCDDFLVYCGDTHG SFVVRTLLQVLGGTILESERARP RGSQSSEAQKTPAQECKPADFE VPETFLNRLQDLSSSFLKDIAVF ITDKISSFCLQVALQVLHRKLA QFCAHICNAVIGYLSARGSSVD GKPLLLFLRDQTSFRLLEQVLL VLEPPRLQSLFEEHLQGQLQTL AAHPIANFPLQRLLDAVTTPEL LSPVFEELSPVLEAVLAQGHPG VVIALVGACRRVGAYQAKVLQ LLLEAFHCAEPSSRQVACVPLF ATLMAYEVYYGLTEEEGAVPA EHQVAMAAARALGDVTVLGSL LLQHLLHFSTPGLVLRSLGALT GPQLLSLAQSPAGSHVLDAILTS PSVT\PSCAAVCLQNLKGTNIVA LACKSP*QPRVLKCHLEWSSLE GP/RRKIAAELGEQNQEL\KEPP FGHHVARNVALTTFLKRREAW EQQQGAVAKRRRALNSILED
20476	50844	A	20593	55	393	
20477	50845	A	20594	150	379	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20478	50846	A	20595	1	2408	MGVWGIRTPFMVVGLESPVGS SPRGQGSCVRLPQRRPDKSHAG ARTGPETLRERAQQSNKLPEW AEKGSHPARWSPNRGGRWTLP TARERRPSRALKARAAGRRQA KVADFRLPAAAPPEGAAQLRLE SERLPHQDEKEPSSYRGSCGSCP VTLRKMPYLGSEDVVKELKKA LCNPHIQADRLRYRNVIQRVIR YMTQGLDMSGVFMEMVKASA TVDIVQKKLVYLYMCTYAPLK PDLALLAINTLCKDCSDPNPMV RGLALRSMCSLRMSKLDQWGQ AEVLNFLLRYQPRSEEELFDILN LLDSFLKSSSPGVVMGATKLFLI LAKMFPHVQTDVLVRVKGPLL AACSSESRELCFVALCHVRQIL HSLPGHFSSHYKKFFCSYSEPH YIKLQKVEVLCELVNDENVQQ VLEELRGYCTDVSADFAQAAIF AIGGIARTYTDQCVQILTELLGL RQEHITTVVVQTFRDLVWLCPQ CTEAVCQALPGCEENIQDSEGK QALIWLLGVHGERIPNAPYVLE DFVENVKSETFPAVKMELLTAL LRLFLSRPAECQDMLGRLLYYC IEEEKDMAVRDRGLFYYRLLLV GIDEVKRILCSPKSDPTLGLL\ED PAERPVNSWASDFNTLVPVYG KAHWATISKCQGAERCDPKLP KTSSFAASGPLIPEENKERVQEL PDSGALMLVPNRQLTADYFEK
20479	50847	B	20596	330	2458	
20480	50848	A	20597	2	171	
20481	50849	A	20598	32	1040	LQLAKLGDWRMQALRHVHCR FTEG*FMYSL*LTFPPAGYQVT GVFMKNWDSL\DEHGV\CTAD K\DCE\DA\YRVCQIL\DIPF\HQV SYGTEVIFFYSSDFLNEYEKGRT PNPDIVCNKHIKFSS*SLCSKNL TGADAIATGHYARTSLEDEEVF EQKHVKKPEGPASWRNCLSVG WFLYTLGQRANIGGLREPWYV VEASPPSHSILQAPRTDHPALYR DLLRTSRVHWIAEEPPAALVRD KMMECPPPRAPLFYPVPCVLTL NQDGTVWVTAVTPDARVSPLQ FAVFYKGDECLGSGKILRLGPS AYTLQKGQRRAGMATESPSDS PEDGP\GLSPLL
20482	50850	A	20599	12	432	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20483	50851	A	20600	2	509	RLHSLLGDYYQAIKVLENIDLS TKSMYSRVPEC\QVTTYYYVGF AYSMMRCYQDAIRVFASILLYI HRTNSMFQRTKYKYEMIIMLN EQMHALLAIALTMYPMRI\DESI YLHLREKYVDKMLRMQNGDL QVYEELFRYSCTKFL*PVPPNY DTVHAHYHTESFLQSLRR
20484	50852	B	20601	8	1188	
20485	50853	A	20602	1	257	
20486	50854	B	20603	210	312	
20487	50855	C	20604	49	288	
20488	50856	A	20605	13	446	IPVRPTRPADDYESEAAYDPYA YPSDYDMHTGDPKQDLAYERQ YEQQTYQVIPEVIKNFIQYFHKT VSDLIDQKVYELQASRVSSDVI DQKVYEIQDIYEN\DAVFLILYK ELYYRHIYAKVSFQSFSQYRCK TAKKSEEEIDFL
20489	50857	B	20606	77	611	
20490	50858	A	20607	1	1956	SLVDPRVRPRVRVLASEAAMS YPAD\DYESEAAYDPYA\YPSD YDMHTGDPKQ\DLAYE\RQYEQ \QTYQVIP\EVIKNFIQYFHKTVS DLIDQK\VDELQASPCLQVIVID QERLYEDSRTIY*EQAWTKL\TE RFF\KNTPWPGGWKPLVPQGLA MDA/VSFLDFYPKNYTYRHIYA KVSGGPSL\EQRFESYYNYCNL FNYILNADGSRSPLNYPNQW\L WGYLSMEFIYPVFSHF\SQYRW *DLPKKSEEEI\DFLRSNPKIW\N VHSVLNVL\HSLVDKSNINRQL GGYTQAGGDP*ECGWGSMGR HSLYMM\LHYFSLVR/GFSRLHS LLG\DYYQAIKVLENIELNKKS MYSRVPRVPRSPTYY\YVGFAY LMMRRY\QDAIRVFANILLYIQ RTKSMF\QRT\TYKYEMI\NKQIE QMHAL\LAIALT\MYPMR\IDESI HLQLREKYG\DK\MLRMQK\GD PQVYE*LF\SYSCP\RFLAA\VVP TYDNVHPN\YHKEP\FLQ\QLKG VFLDEVQ\QQGPAFKPIRSFLKL\ YTTHALLAKPGLASLDPHRGRE FRDPRFLCLSNHQG*RNLVLGP AGISSPWIGEISVSPQRVDLPTL NKDMIPHRGTPKVPQAVMGDF LHPVRSHKFGGA*SEPLKEGWG QRPWMIFTTHFREPVFDVIIGQG
20491	50859	A	20608	2	413	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20492	50860	A	20609	232	621	
20493	50861	A	20610	1	3590	MAPRKRGGRGISFIFCCFRNND HPEITYRLRNDSNFALQTMEPA LPMPPVEELDVMFSELVDELDL TDKHREAMFALPAEKKWQIYC SKKKDQEENKGATSWPEFYID QLNSMAAGILEGVFVHIVITHC LQNQQQLLHDKQGNRHFICCL RSHQHPMLPACSNVHLSSFDRK TLCKDALCPLPASHVSRYLRKS LLALEKEEEEERSKTIESLKTAL RTKPMRFVTRFIDLDGLSCILNF LKTMDYETSESRIH
20494	50862	A	20611	203	3480	SHQEIEQNSAMAPRKRGG\RGI AFIFCCLRNNDHPEITYRLRNDS NFALQTMEPALPMPPVEELDV MFSELVDEL\DLPDKHREAMFA LPAEKKWQIYCSKKKDQEENK GATSWPEFYIDQLNSMAARKSL LALEKEEEEERSKTIESLKTALR TKPMRFVTRFIDLDGLSCILNFL KTMDYETSESRIHTSLIGCIKAL MNNSQGRAHVLAHSESINVIAQ SLSTENIKTKVAVLEILGAVCLV PGGHKKVLQA
20495	50863	A	20612	1	338	PGGALRVPDAPAGAEGQELCR SDFPVGGAGVGDEEGVQCPAP AAHRDDTDLRGAH*EVQDAAG RRKQPDREQPAGAEEGAPHLPE RVPPG*RHGTCTDRGQARACG GPLAPE
20496	50864	B	20613	610	6429	
20497	50865	B	20614	28	280	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20498	50866	A	20615	160	1397	VKMSAQESCLRLIKDFLFVFNL FFFALGSLIFC\FGIWILIDKTSFL SFVGL/AAFVPLQIW\SKVL\AIS GNLSPWGIALLGLCWGALK\EL RCLLG\LYFG\MLLLLFATQITLE KSSSSNQR\AQLERSLR\DVVGK TI\QKYGINPE\ETAPEEN\WDYV QSNLRWCGWHYGRDWFKVFIL RGNGSEAH\RVTRS*YNFMAT* NSTILNKVIVHQLTRLEHLARSR HSAD\ICAVPAESHITRKG\CAQ GIQK\WLHNTLIFP*WAICLGVG LLE\LGFMTLSNIPVEETVDHGL PTGSARYRLGPAPPQSRAPPPVS VRWALPVLPVNICLIPRLAVEPS GVHISPGDTTWLRAPAAVTSPT GPGAFVHSFLSPSVGLPPPTRLF FTQTSNKPPAFLVNDHKKGGRS KKALEGPNVTRA
20499	50867	A	20616	290	492	
20500	50868	A	20617	1164	2134	NNYNHHHHHHHHHDYYNHH/ HHYHHHHHHHHNYNHHHHDH HHNYKHHHHHYHQHHHNYNH HHHHHHSYNHHHHHHHHHHN YNHYHHHHHHHHHHHREYHH HH/HHHHYHHHHHHNYNYHH HYHHHHHQHYHHNHHHHNHH YNHHY\HHNQYHYHHYHHHD YYHHH/HYHHHNYYYLYNRYH HYHHYHQSNHYRHHHHHHQY HHN/HEPFA/HHT*ILFCS*KQDR NLHCAWPFFFPFFNCHHHCHH HHQQQQHSGVKTKQSRPESLLP ERCIYLHQKHHPLHRPGAPQHQ KTASWRGQAREAAGSSPGSLSS HTADHEVEAFKRCFYSRF
20501	50869	B	20618	164	1526	
20502	50870	A	20619	1	762	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20503	50871	A	20620	69	1054	AISCHVVHAGHQQTQITGNDPF PVVTYSKGPNLQSSRSDMDDST EREQSRLTSCLKKREEMKLKEC VSILPRKESPSVRSYKDGKLLA ATLLLALHACCLTEVSFYQVAA LQGDLASLRAELQGHHAEKLP AGAGAPKAGLGGSSSCSPRDLK IF*TTSSREKAIP/GSEQQK*GVP FQGPEETVTQDCLQLIADSETPT IQKGSYTFVPWLLSFKRGSALE EKENKILVKETGYFFIYGQVLY TDKTY\AMGHLIQRKKVHVFG DELS\LVTLFR\CIQNMPETLPNN SCYSAGIAKLEEGDELQLAIPRE NAQISLDGDVTFFGALKLL
20504	50872	A	20621	3	855	LQNSHGHTMIRTLLLSTLVAGA LSCGDPTYPPYVTRVVGGEEAR PNSWPWQVSLQYSSNGKWYHT CGGSLIANSWVLTA\AHCISSS\R TYRVGLGRHNLYVA\ESGSLA/ MSSVSKIVVHKD\WNFNQISKG\ NDI\ALLKLANPVSLTDKIQ\LA\ CFPPAGTILPN\NY\PC*VTGLGE SCRTNG\AVPDVL\QQGR\LLAV DYATCS\SSA\WWGSSVKTSMIC A\GGDGVISSCNGDSGGPLNCQ A\SDALWQVHGIVSFGSRLGCN YYHKPSVFTRVSNYIDWINSVI AYN
20505	50873	A	20622	19	414	SVCWEDRYLKARMEESPLSRA PSRGGVNFLNVARTYIPNTKVE CHYTLPPGTMPSASDWIGIFKP/ GYLPKPGAQLYQFRYVNRQGQ VCGQSPPFQFREPRPMDELVTL EEADGGSDILLVVPKATVLQNQ
20506	50874	A	20623	1	393	AKSWQEEQSAQAQRLKDKVA QMKDTLGQAQQRVVSEAPWQ QETGNSKGKL*RSLRV*REGER HG*RLNNTTPSPNAVEWRER/IT SLADE*FTRNCDLHLLLSPEAEL EPLKEQLRGAQELAASSQQKAT LY
20507	50875	A	20624	56	416	NRPLLALVASDTQPLHTHTHTH TPLSDAPKPIPGA/HLP/CSYLEF PLTSVPHPSLFHNLRYSVWRGF LYF*GFLYSVSSPRISSHGKK*CI CAFCEEWGEQVVPGIPISKAPLP LQVPPQQ
20508	50876	A	20625	115	392	
20509	50877	B	20626	1	3388	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20510	50878	A	20627	3	1889	SSPREKTSDSSHRPSRHGFLFLR LVGLSPFSYLCVPPSRPVPGSPR SLSAMRLLPLAPGRLRRGSPRH LPSCSPALLLLVLGGCLGVFGV AAGTRRPNVVLLLTDDQDEVL GGMTPLKKTKALIGEMGMTFS SAYVPSALCCPSRASILTGKYPH NHHVVNNTLEGNCSSKSW\QKI QEPNTFPAILRSMCGYQTFFCR GNI*MKYGAP\DAGG\LG\HVPL GLGVTWYALEKNS\KYYNYTL FYSMGKARKHGENY\SVDYLT DVLANVSLDF\LDYKSNF*PFF MMIATP\APHSPWTAAPQYQKA FQNVFAPRNKNFNIHGTNKHW LIRQAKTPMTNSSIQFLDNAFR KRWQTLLSVDDLVEKLVKRLE FTGELNNTYIFYTSDNGYHTGQ FSLPIDKRQLYEFDIKVPLLVRG PGIKPNQTSKMLVANIDLGPTIL DIAGYDLNKTQMDGMSLLPILR GASNLTWRSDVLVEYQGEGRN VTDPTCPSLSPGVSQCFPDCVCE DAYNNTYACVRTMSALWNLQ YCEFDDQEVFVEVYNLTADPD QITNIAKTFDP\ELLGKMNYRL MMLQSCSGPTCRTPGVFDPGY RFDPRLMF\SNRGSVRTRRFSQT SSCSDPHTASADGSLHALFLMK
20511	50879	A	20628	132	253	
20512	50880	A	20629	1	1269	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20513	50881	A	20630	1	1920	MDEAEFSSFVVRTNTCGELRSS HLGQEVTLCGWIQYRRQNTFL VLRDFDGLVQVIIPQDEVIENFL LLSKSFFDAIAGSAASVKKILCE APVESVVQVSGTVISRPAGQEN PKMPTGEIEIKVKTAELLNACK KLPFEIKNFVKKTEALRLQYRY LDLRSFQMQYNLRLRSQMVMK MREYLCNLHGFVDIETPTLFKR TPGGAKEFLVPSREPGKFYSLP QSPQQFKQLLMVGGLDRYFQV ARCYRDEGSRPDRQPEFTQIDIE MSFVDQTGIQSLIEGLLQYSWP NDKDPVVVPFPTMTFAEV\RPP YGTDKPDTRFGMKIIDISDVFR NTEIGFLQDALSKPHGTVKAICI PEGAKYLKRKDIGSIRNFAADH FNQEILPVFLNANRNWNSPVAN FIMESQRLELIRLMETQEEDVV LLTAGEHNKACSLLGK\LRTGN VAGPSRKQEGVVLRDPTLFSFL WVVDFPLFPGQRRKIQESWDR GQHPF\TAPHPR*IT\LLYTEPKK ARSQHYDLVLNGNEIGGGSIRI HNAELQRYILATLLKEDVKMLS HLLQALDYGA\PPHGGIALGLD RLICLVTGSPSIRDVIAFPKSFRG HDLMSNTPDSVPS*GTEALSYP SLQANRLQSRKSSLNHAYHAES
20514	50882	A	20631	1	425	KEPVGCVNNISFLASLAGSTSR NRLQSTRGAGRLQNSGTGLSTN LQHFQEENFRKSSPQLEHT/WSF FGECTTHHLPPVKAPLQTKKKT TNHCFLCGKKTGLASSYECRQ VGELEKLRCFLCDNPAWGLCKI KYLNCLFITSL
20515	50883	A	20632	1	1647	
20516	50884	A	20633	1	3096	
20517	50885	A	20634	1	419	
20518	50886	A	20635	558	1070	SFRFGHSHGLWKRKKVA*GSN AIQHNMLQGKQNFHGAALWY KGNSTQSKRPQRAP*ESSTTKR GLQLSRQTLQLDPGGTVPCSEE YCICQ*EGPASRNRYNGVPSHF PSPTCIRESSHSGKILKSRLRCW GWPTDPWSVLPMDPRTSPLCA AGSQAVVAHSGRQQKYPAL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20519	50887	A	20636	3887	4573	KKTTLLTLSKTRNILNPFKVVK KKAYGSRKHLRQ/HLAINPAAL LPTAASQISEVKPVLPELAFPSS EHRRSHGLESVPVLPGSGEAGV SFDLPAQADTLHSANKSRVKM RGKRRPQTRAARRLAAQESSEA EDM\RSPEDPLHSGLMAPFPQM AIGHSSEQPVEKTALRRPWQLP LHLGKVVLCLEWTQAPLQSLW VIPEGRLTFLILGTFFPRALDLSP WREQNPRQR
20520	50888	A	20637	1	2988	MATAPSPPMLTLAPAWLCPAT TTPRDHSEASLEALPGDPPAHP AAAATAAAVIPALEPPHTPVYA IFVNHSLLDLYIDRPLPYLIGSK LFMEQEDVGLGELSSEEGNADE QSSGLEGACKVNLELLLTNAD KGLKAPEQHLKHVAGVLNGES VETSVLNYRELSPHKNRLLSPL RCSAPMSLHNSLVKPERQSKCF EFGKLQPSSSQSLDVQNITDSSF SRTTCFQGVKVDSLGKRSDVIS KVEARDITEMTNKA
20521	50889	A	20638	1	1176	
20522	50890	A	20639	2	367	
20523	50891	A	20640	124	441	RYPRVPENRCFSELLFFQAPLG VGMARGNQR\ELARQKNLKET\ QEI\SRGKGKEDSLTALSRKQRD S*IIAKKQKAA\NEKKS\MQTRE NVMTGYLENPGATAQLGVS
20524	50892	A	20641	32	232	
20525	50893	A	20642	1	256	
20526	50894	C	20643	133	509	
20527	50895	A	20644	88	685	QKRGRLFKIILKVVLYLMKVIVI HRKMFQRAQELRWRAEDYHK CKAFSDHPLCKKASLQLGQNG GSGASSFFRIALLALPHS*NFKK QDGPPATSSNSTTFYN**LPEPQ DTSRMSSYSLSTLSSSTLRG**S QDSSLSYSGGRGRKITETQEAE VE*AENRSLHSSLGNKKKSVSG TKEKNQKTKQNPHSKNKLTKN
20528	50896	A	20645	42	946	
20529	50897	C	20646	1	453	
20530	50898	C	20647	771	1223	
20531	50899	C	20648	324	659	
20532	50900	C	20649	427	654	
20533	50901	B	20650	343	1774	
20534	50902	B	20651	23	525	
20535	50903	B	20652	2354	5689	
20536	50904	B	20653	448	3506	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20537	50905	B	20654	12	182	
20538	50906	C	20655	210	422	
20539	50907	C	20656	145	357	
20540	50908	B	20657	1	327	
20541	50909	B	20658	1	2595	
20542	50910	B	20659	122	472	
20543	50911	B	20660	163	418	
20544	50912	C	20661	86	517	
20545	50913	B	20662	334	2946	
20546	50914	B	20663	11	700	
20547	50915	B	20664	184	2372	
20548	50916	C	20665	267	467	
20549	50917	B	20666	131	268	
20550	50918	B	20667	18	255	
20551	50919	B	20668	100	356	
20552	50920	B	20669	120	839	
20553	50921	B	20670	355	504	
20554	50922	B	20671	1	1524	
20555	50923	B	20672	175	366	
20556	50924	B	20673	436	792	
20557	50925	B	20674	94	1347	
20558	50926	B	20675	865	1189	
20559	50927	B	20676	241	423	
20560	50928	B	20677	124	352	
20561	50929	B	20678	1	847	
20562	50930	B	20679	262	4624	
20563	50931	C	20680	76	297	
20564	50932	B	20681	1	702	
20565	50933	B	20682	1	1347	
20566	50934	B	20683	78	2874	
20567	50935	B	20684	133	7317	
20568	50936	B	20685	294	1449	
20569	50937	C	20686	139	367	
20570	50938	C	20688	154	445	
20571	50939	B	20689	1	1086	
20572	50940	B	20690	111	440	
20573	50941	B	20691	303	462	
20574	50942	B	20692	1	2905	
20575	50943	C	20693	349	453	
20576	50944	C	20694	233	376	
20577	50945	B	20695	1	2016	
20578	50946	B	20696	1464	3022	
20579	50947	B	20697	1	1059	
20580	50948	B	20698	1	933	
20581	50949	B	20699	1	930	
20582	50950	C	20700	129	215	
20583	50951	C	20701	283	408	
20584	50952	B	20702	1	1134	
20585	50953	B	20703	1	525	
20586	50954	B	20704	146	556	
20587	50955	B	20705	1	675	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20588	50956	B	20706	1	1107	
20589	50957	B	20707	1	774	
20590	50958	C	20708	52	156	
20591	50959	C	20709	1	420	
20592	50960	B	20710	1	1347	
20593	50961	C	20711	1	411	
20594	50962	B	20712	169	248	
20595	50963	B	20713	63	1321	
20596	50964	B	20714	1	359	
20597	50965	C	20715	1195	1674	
20598	50966	B	20716	964	1290	
20599	50967	B	20717	51	389	
20600	50968	B	20718	108	232	
20601	50969	B	20719	425	3545	
20602	50970	C	20720	35	226	
20603	50971	B	20721	1	387	
20604	50972	B	20722	1	1926	
20605	50973	B	20723	523	1242	
20606	50974	B	20724	42	2346	
20607	50975	B	20725	63	287	
20608	50976	B	20726	59	200	
20609	50977	B	20727	1	1176	
20610	50978	B	20728	1	769	
20611	50979	B	20729	1	2009	
20612	50980	B	20730	219	3045	
20613	50981	B	20731	195	1739	
20614	50982	C	20732	126	435	
20615	50983	B	20733	2752	4108	
20616	50984	B	20734	1	1104	
20617	50985	B	20735	24	230	
20618	50986	B	20736	1	1292	
20619	50987	B	20737	1	7977	
20620	50988	B	20738	157	2627	
20621	50989	C	20739	165	533	
20622	50990	B	20740	35	87	
20623	50991	C	20741	68	202	
20624	50992	B	20742	83	2670	
20625	50993	B	20743	162	276	
20626	50994	B	20744	104	245	
20627	50995	B	20745	66	2768	
20628	50996	B	20746	14	3115	
20629	50997	C	20747	69	203	
20630	50998	B	20748	1	2152	
20631	50999	C	20749	114	387	
20632	51000	C	20750	56	250	
20633	51001	B	20751	53	3398	
20634	51002	B	20752	642	2386	
20635	51003	B	20753	1	1242	
20636	51004	B	20754	51	601	
20637	51005	B	20755	192	463	
20638	51006	B	20756	125	1254	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20639	51007	C	20757	208	333	
20640	51008	B	20758	155	4443	
20641	51009	B	20759	1	2529	
20642	51010	B	20760	63	321	
20643	51011	B	20761	226	645	
20644	51012	B	20762	1	1395	
20645	51013	B	20763	258	475	
20646	51014	C	20764	126	263	
20647	51015	B	20765	1	1429	
20648	51016	B	20766	51	3256	
20649	51017	C	20767	83	403	
20650	51018	B	20768	1	621	
20651	51019	B	20769	1	463	
20652	51020	B	20770	1002	3594	
20653	51021	C	20771	107	403	
20654	51022	B	20772	51	401	
20655	51023	C	20773	46	398	
20656	51024	B	20774	1	513	
20657	51025	B	20775	1	531	
20658	51026	C	20776	1	423	
20659	51027	B	20777	52	670	
20660	51028	C	20778	43	375	
20661	51029	B	20779	1	1629	
20662	51030	B	20780	1	1713	
20663	51031	B	20781	1	5154	
20664	51032	B	20782	37	585	
20665	51033	B	20783	1	3789	
20666	51034	C	20784	149	367	
20667	51035	C	20785	89	234	
20668	51036	B	20786	113	278	
20669	51037	B	20787	1	1632	
20670	51038	B	20788	1	762	
20671	51039	B	20789	230	3411	
20672	51040	B	20790	95	1150	
20673	51041	B	20791	1	1230	
20674	51042	B	20792	74	3123	
20675	51043	B	20793	1	1719	
20676	51044	C	20794	206	402	
20677	51045	B	20795	302	424	
20678	51046	B	20796	60	80	
20679	51047	B	20797	1	1248	
20680	51048	B	20798	8	1910	
20681	51049	B	20799	124	807	
20682	51050	B	20800	43	618	
20683	51051	B	20801	7	328	
20684	51052	B	20802	244	385	
20685	51053	B	20803	850	970	
20686	51054	C	20804	97	360	
20687	51055	B	20805	551	3159	
20688	51056	B	20806	861	1110	
20689	51057	B	20807	1	876	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20690	51058	B	20808	1	849	
20691	51059	B	20809	1	1443	
20692	51060	B	20810	508	2398	
20693	51061	B	20811	53	185	
20694	51062	B	20812	50	633	
20695	51063	B	20813	1	444	
20696	51064	B	20814	58	262	
20697	51065	B	20815	27	1005	
20698	51066	B	20816	1	4860	
20699	51067	B	20817	1	3489	
20700	51068	C	20818	52	363	
20701	51069	C	20819	347	499	
20702	51070	B	20820	1	4140	
20703	51071	B	20821	85	3930	
20704	51072	B	20822	848	3116	
20705	51073	B	20823	41	1211	
20706	51074	B	20824	248	4307	
20707	51075	B	20825	67	3180	
20708	51076	C	20826	229	467	
20709	51077	B	20827	71	1827	
20710	51078	B	20828	1	1045	
20711	51079	B	20829	1279	1479	
20712	51080	B	20830	1	2460	
20713	51081	B	20831	62	3691	
20714	51082	B	20832	1	1062	
20715	51083	B	20833	1	873	
20716	51084	B	20834	1	1041	
20717	51085	B	20835	161	5445	
20718	51086	B	20836	199	343	
20719	51087	C	20837	86	229	
20720	51088	C	20838	1	225	
20721	51089	C	20839	34	165	
20722	51090	C	20840	238	455	
20723	51091	C	20841	200	322	
20724	51092	B	20842	59	164	
20725	51093	C	20843	1353	1793	
20726	51094	B	20844	1	1329	
20727	51095	C	20845	43	324	
20728	51096	C	20846	223	435	
20729	51097	C	20847	212	307	
20730	51098	C	20848	386	529	
20731	51099	B	20849	300	995	
20732	51100	B	20850	876	3312	
20733	51101	B	20851	153	306	
20734	51102	B	20852	39	3131	
20735	51103	B	20853	29	136	
20736	51104	B	20854	112	333	
20737	51105	B	20855	31	474	
20738	51106	B	20856	26	1716	
20739	51107	B	20857	27	1234	
20740	51108	B	20858	1	6390	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20741	51109	B	20859	1	1014	
20742	51110	B	20860	128	837	
20743	51111	B	20861	1	931	
20744	51112	B	20862	357	4629	
20745	51113	B	20863	1	1017	
20746	51114	B	20864	1	1908	
20747	51115	B	20865	224	9448	
20748	51116	B	20866	1	1209	
20749	51117	B	20867	138	359	
20750	51118	B	20868	1	1567	
20751	51119	B	20869	226	9033	
20752	51120	B	20870	20	2689	
20753	51121	B	20871	1602	2647	
20754	51122	C	20872	72	452	
20755	51123	C	20873	64	423	
20756	51124	B	20874	33	363	
20757	51125	B	20875	131	1675	
20758	51126	B	20876	37	219	
20759	51127	B	20877	1	564	
20760	51128	B	20879	1	651	
20761	51129	B	20880	44	424	
20762	51130	B	20881	28	202	
20763	51131	B	20882	1	3403	
20764	51132	B	20883	110	970	
20765	51133	B	20884	70	485	
20766	51134	B	20885	482	2943	
20767	51135	B	20886	469	1480	
20768	51136	B	20887	156	308	
20769	51137	C	20888	218	348	
20770	51138	B	20889	1	5130	
20771	51139	B	20890	21	1139	
20772	51140	B	20891	1	1302	
20773	51141	B	20892	1	1028	
20774	51142	B	20893	1	858	
20775	51143	B	20894	1	2001	
20776	51144	B	20895	1	546	
20777	51145	B	20896	1	1167	
20778	51146	B	20897	1	1299	
20779	51147	B	20898	1	1260	
20780	51148	B	20899	1	771	
20781	51149	C	20900	155	337	
20782	51150	B	20901	1	1251	
20783	51151	B	20902	106	543	
20784	51152	B	20903	57	2279	
20785	51153	B	20904	905	1120	
20786	51154	B	20905	145	2277	
20787	51155	B	20906	1	1384	
20788	51156	B	20907	1	4775	
20789	51157	C	20908	99	251	
20790	51158	B	20909	1	693	
20791	51159	B	20910	77	2173	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20792	51160	B	20911	140	313	
20793	51161	B	20912	1	392	
20794	51162	C	20913	1	222	
20795	51163	B	20914	1	951	
20796	51164	B	20915	45	1244	
20797	51165	B	20916	166	2544	
20798	51166	C	20917	279	449	
20799	51167	B	20918	1	1250	
20800	51168	B	20919	229	2094	
20801	51169	B	20920	94	434	
20802	51170	C	20921	253	336	
20803	51171	B	20922	1	1314	
20804	51172	B	20923	6	327	
20805	51173	B	20924	163	3060	
20806	51174	B	20925	20	385	
20807	51175	B	20926	22	58	
20808	51176	C	20927	141	287	
20809	51177	B	20928	37	1063	
20810	51178	C	20929	261	401	
20811	51179	B	20930	66	3148	
20812	51180	B	20931	223	4149	
20813	51181	C	20932	21	278	
20814	51182	B	20933	158	1283	
20815	51183	B	20934	8	896	
20816	51184	B	20935	240	387	
20817	51185	C	20936	312	512	
20818	51186	B	20937	451	611	
20819	51187	C	20938	160	428	
20820	51188	B	20939	110	294	
20821	51189	B	20940	121	1764	
20822	51190	B	20941	1	423	
20823	51191	C	20942	74	316	
20824	51192	C	20943	136	255	
20825	51193	C	20944	79	381	
20826	51194	B	20945	282	1180	
20827	51195	B	20946	63	371	
20828	51196	C	20947	193	672	
20829	51197	B	20948	85	898	
20830	51198	B	20949	35	1055	
20831	51199	B	20950	1	870	
20832	51200	B	20951	103	1189	
20833	51201	B	20952	501	594	
20834	51202	B	20953	39	1694	
20835	51203	B	20954	489	4797	
20836	51204	C	20955	31	153	
20837	51205	B	20956	259	699	
20838	51206	B	20957	4	231	
20839	51207	B	20958	50	520	
20840	51208	C	20959	322	456	
20841	51209	B	20960	163	1152	
20842	51210	B	20961	33	745	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20843	51211	B	20962	210	3519	
20844	51212	C	20963	34	294	
20845	51213	C	20964	301	381	
20846	51214	B	20965	71	675	
20847	51215	B	20966	1	873	
20848	51216	B	20967	118	1618	
20849	51217	B	20968	424	2415	
20850	51218	C	20969	106	231	
20851	51219	B	20970	71	756	
20852	51220	B	20971	1	1049	
20853	51221	C	20972	94	327	
20854	51222	B	20973	339	2589	
20855	51223	B	20974	89	273	
20856	51224	B	20975	1	2514	
20857	51225	B	20976	472	5831	
20858	51226	C	20977	247	300	
20859	51227	B	20978	1	2487	
20860	51228	B	20979	55	243	
20861	51229	C	20980	207	377	
20862	51230	B	20981	642	4117	
20863	51231	B	20982	44	2127	
20864	51232	B	20983	48	1127	
20865	51233	B	20984	1	3411	
20866	51234	B	20985	74	469	
20867	51235	B	20986	39	1251	
20868	51236	B	20987	223	378	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20869	51237	A	20988	1	2577	MPPNRHRMRGETTLWNPGCDH AGIATQVVVEKKLWREQGLSR HQLGREAFLQEVWKWKEEKG DRIYHQLK\KLGSSLDWDRACF TMDPKLS\AAVTEAFVGLHEKG IIYRSTAFVNWPCTLNSAISDIE VDKKELTGRTLLSVPGYKEKV EFGVLVSF\AYK\VQGSD*/DDE EVVVANKLGSKT\MLGDVAVA VPPPKDTR\YQHL\KGKNVIHP\F LSRSLSPLSSDEFVDMDF\GTGA VKDHPPRHDQNDYEVGQRHGL EAISIMDSRGA\PIKCASAFPGPA AGLRPGKRCWWR*RNRGLFRG IEDNPMVVPLCNRSKDVVEPLL RPQWYVRCGEMAQAASAAVT RGDLRILPEAHQRTWHAWMD NIREWCISRQLWWGHRIPAYFV TVSDPAVPPGESEDLSVFYPGT LLETGHDILFFWVARMVMLGL KLTGRLPFREVYLPCPSCENAH GRK\MSKSLGNVIDPLDVHL/Y GISLQGLHNQLLNSNLDPSEVE KAKEGQKADFPAGVPECGTDA LRFGLCAYMSQGS*K*TWNVN RIMG*RQFCNKLWKCTKFALR GLGKGFVPS\DTSNSAGHESLA DR*IRNLLTEAVRLSNQGFQAY DFPAVTTAQYSFWLYELCDVY LECLKPVLNGVDQV/AQAECAR QTLYTLPWTLGLRLLSPFMPFV TEELFQRLPRRMPQAPPSLCVT
20870	51238	A	20989	2	4083	SQRGEHVGAGCRGGDLRELGS PGEPPTVSARSTPPPGPLGGSQP RPAPGCEVDSPAQSDHLPPVFP LRSDLLITMSTLYVSPHPDAFPS LRALIAARYGEAGEGPGWGGA HPRICLQPPPTSRTSFPPPRLPAL EQGPGGLWVWGATAVAQLLW PAGLGGPGGSRAAVLVQQWVS YADTELIPAACGATLPALGLRS SAQDPQAVLGALGRALSPLEE WLRLHTYLAGEAPTLADLAAV TALLLPFRYVLDPPAR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20871	51239	A	20990	1	756	MDMGAIKEGESRRPGDRMTVA GTKLLHLQSTHLDFISLSGAPSG ALELSKAQPAHAQDTRVLMKM VIIWDLSQVPLQPGHDGHSFRIH DYLYFQVLSPGDIRYIFTATPAK DFGGIFHTRYEQIHLVPAEPPEA CGELSNGFFIQDQIALVERGGCS FLSKTRVVQEHGGRGGDHL*Q RS*QMTASTW/QMIQDSTQRTA DIPALFLLGRDGYMIRRSLEQH GLPWAIISIPVNVHQHSPPLSCC NRPFLFW
20872	51240	A	20991	2	393	
20873	51241	A	20992	1066	1824	
20874	51242	A	20993	3	902	
20875	51243	A	20994	1	2163	
20876	51244	A	20995	1	1890	
20877	51245	A	20996	1	2882	MKQQLPVSYLQVIFNHWASRIS GARGAGWGPVRLGRLCADRAL DGESRPGGGGQSGVPASEASQ KAAHGRRLPVPARLLRCAHSA LEPGRGSASSPRNSTTSDNDQPP DYSFSKRCDSHSLGFSLVWESR NLTLPPTSKLLHFSAFHFFIYKC RAEGHKLYKDLKNFLSAVKVM HESSKRVSETLQFIYY\SEWYGH EELKAIVWNNDLLWEDYEEKL ADQAVRTMEIYVAQFSEIKERI AKRGRKLVDYDSARH

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20878	51246	A	20997	1	1791	MPGARTSSSGASENHRARGQG GGPQGVGRMAEGKAGGAAGL FAKQVQKKFSRAQEKVLQKLG KAVETKDERFEQSANNFYQQQ AEGHKLYKDLKNFLSAVKVMH ESSKRVSETLQEIYSSEWDGHE ELKAIVWNNDLLWEDYEEKL\ ADQAVRTMEIYVAQFSEIKE\RI AKRGRKLVDYDSARHHLEAVQ NAKKKDEAKTAKAEEEFNKAQ TVFEDLNQELLEELPILYNSRIG CYVTIFQNISNLRDVFYREMSK LNHNLYEVMSKLEKQHSNKVF VVKGLSSSSRRSLVISPPVRTAT VSSPLTSPTSPSTLSLKSESESVS ATEDLAPDAAQGEDNSEIKELL EEEEIEKEGSEASSSEEDEPLPA CNGPAQAQPSPTTERAK\SQEE VLPSSTTPSPGGALSPSGQLSSS ATEVVLRTRTASEGSE\RPKKT ASIQRTSAPPRRPPPPRATASPRP CSGNIPSSPTASGGGSA\TSPRAS LGTGTASPRTSLEI*PNPE\PPEK PVRTPEAKENENIHNQNPEELC TSPTLMTSQVASEPGEAKKME DKEKDNKLISADSSEGQDQLQV SMVPENNNLTAPEPQEEVSTSE
20879	51247	A	20998	3	273	RRPRQRPTDQTQWFSILPDFSLD LQEGPSVESQT\HSDPHIPPVDP TTHLTFNHLSIVCVSLTLSLPHL GSPCLWSPALVSQEAASHQDRR
20880	51248	A	20999	309	1310	RHQRAPEQGPDASWKMLDSLL ALGG\LVLL\RDSVE\WEG\RSLL K\ALVKKSALCGE\QVHILGCE\ VSEKEFREGFDS**STIRLVYHD F\FRDP\LNWSKTEEGL/VPGGPL GALRS\MCKR\TDPVPVTIALDS LS\WLLLRLHCT\TLCQ\ALHAV EPSRTLVLGDSSSVGKVSVLGL LHERLPRPAPVVALSSLAQTKV TLGGYHGARPSAHIL\CRRPRQ\ RPN\YQTQWFSI\LPDFSLGSPRG ALCRVPALIPIPHITPGGIPHNSF *PFNLHL\SKKEREARDSLILPFQ FSSEKQQA\LLRPRPGQATSHIF YEPDAYDDLDQEDPDDDLNILP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20881	51249	A	21000	418	1304	GLVMEIGMHHHEHHHLQAPNK EDILKISEDERMELSKSFRVYCII LVKPKDVSLWAAVKETWTKH CDKAEFFSSENVKVFESINMDT NDMWLMMRKAYKYAFDKYR DQYNWFFLARPTTFAIIENLKY FLLKKDPSQPFYLGHTIKSGDLE YVGMEGGIVLSVESMKRLNSL LNIPEKCPEQGGMIWKISEDKQ LAVCLKYAGVFAENAEDADGK DVFNSQICWAFY*R/WQ*LITPN QVVEGCCSDMAVTFNGLTPNQ MHVMMYGVYRLRAFGPYFSM MHWFSYLQMVLTMTEKW
20882	51250	A	21001	1	1092	
20883	51251	A	21002	130	397	EGVHSQVNLFPIKGNQTHVPAS HGTDSALPPTLQMDYRALVHE PD*AAYGELRAMVLDLRAFYA ELYHIISSNLEKIVNPKGEEKPF
20884	51252	A	21003	11	805	SSMAKPC\GVRLSGKGRKQVEV FYRNLFQEAEEFLLR\FLPPESHI P*NRLLQEDFPFNVA*/LLNLSS GAPLDIPPSPDP\PP\KDDEMETD K\QEKKEVPKCDFLP\GNEKCPC PCLPLVKPRSLDLSKEKC\ILVI\ TWGSRHLDPPRFEDGK*FWG* AIPGEGAWRG*NA\VKDPKWE AFPATPISQVLSSERGDACGPRP PQETHV\MDYRALVHERDEAA YGELRAMVLDLRAFYAELYHII SSNL\EKIV\TPRGEEKPIYVLEP
20885	51253	A	21004	352	670	AKRSRIHVGVVIVDSDGAELGR DAAALSEKPPSLTIGLHMELVG MGGEPALTATPANCPEYPAKPS SI/EQQ*QSQVQ**Q*QVRHGSG PLHRTPRQLFLCSRQFAL
20886	51254	A	21005	3	222	SPEESPPACPRQVFPLYHLQRG QGKRVQVG*GGSLWITTKTRLL PGGVGDNEVAPGSWHLALVFR LLSSGRP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20887	51255	A	21006	1	3639	MSEETLQSKLAAAKKKIQDILN VLVSDLNRSNGVVLPTLDKWK DAPEAWDLCLALRSICGLAIQL LGAAPLTRAANFSVAEVTDVR DSARRWETRKAPYLSCRIALRM NEAAVFRHLVPGVYFPRCDQG CQLTAALGCGAGVQSHVGPVT VTTGPDSVTAADAAGLCRVLR AVGWGGSECRLTPHPYKFHVE PYGGRLVPPRLSVDPGSSRREA TSKVAVDLLVLDAAGADGPVS QSPVWKEAAGVVSQLRGGRQ
20888	51256	A	21011	137	944	KPRCCHSATMFEVPLVQGSILK KVLEALKDLINEACWDISSSGV NLQSMDS/SHVSLLQFTLPSEGF DTYRCDCNLAMGVNLTIMSKIL KCAGNEDIVTLRIEDNVNTLVL VFEASNQEKVSDYEIKLMDLD VEQLGIAEQEYHYVVKMLSGE FASIC*DLSHIGDAVVISGVKDG IIFSASGDLGN\KNKLSQTSTVD KEEEAVTMEMNEPVQLTFALR YLNFLTKATPLSSMVTLNMSA DIHLVVDYKIADVGHLKYYLA PKMEDEEGP
20889	51257	B	21012	205	1309	
20890	51258	A	21013	189	410	
20891	51259	A	21014	1767	2158	RAQPHLYPEAARTRGRK*LHFC APSSAPRAPVSERR/CAGRFLSW CPVAAWDPARWARRARRRRR AAARRRRPPRWRRRCLSARGR RRSLNSSKTKNTKCLNSINQRL KILSLQKDLMCGTAGRCKTLTE Q
20892	51260	A	21015	1	1710	
20893	51261	A	21016	132	522	
20894	51262	A	21017	1	1386	
20895	51263	A	21018	331	3101	SFSEANISTAKKTFLYNELYVY NTRKDTWTKVDIPSPPPRRCAH QAVVVPQGGGQLWVFGGEFAS PNGEQFYHYKDLWVLHLATKT WEQVKSTGGPSGRSGHRMVA WKRQLILFGGFHESTRDYIYYN DVYAFNLDTFTWSKLSPSGTVP TPRSGCQMSVTPQGGIV\VYGG YSKQMPPHSGQSRGRKPGSCLL LLLLLLLLLLLLLLLCVLPLGYSL IELSSSYRLHGNEPVPATFHGLN SHMGLVATILDNVNP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20896	51264	A	21019	2	2911	VRGPRARCRRRSSKTEPRKGPS RTSTRKRLELGAGSDSISVRRAP PHEHLFPSGERGPFSFLVSRRGL GPGKMGKKGKKEKKGRGAEK TAAKMEKKVSKRSRKEEPGVC RRIRPDLGVECSAAAAHGFPNR GQFYGLPCARHSSLGFTPHEQE DLEALIAHFQTLDAKRTQTVEV PCPPPSPRKCRGSQFVVTEDSVR KGTALRLNASLSVHPEKDELIL FGGEYFNGQKTFLYNELYVYNI RKDTWTKVDIPSP
20897	51265	A	21020	1	208	DGYRHEMLPASLIQAQRDYFG AH/TYELWAKPGQFIH/TNWTG HGGTVSSSSYNAFALFSVQFFK SVVRDS
20898	51266	A	21021	3	316	
20899	51267	A	21022	2	578	LIGLAVMGQNLILNMNDHGFV\ TVSKVDDFLANEAKGTKVVGA QSLKEMVSKLKKPRRIILLVKA GQAVDDFIEKLRRCRDLKAKGI LFVGSGVSGGEEGARYGPSLMP GGNKEAWPHIKTIFQGIAAKVG TGEPCCDWVGDEGAGHFVKM VHNGIEYGDMQLICEAYHLMK DVLGMAQDEMALCPIFCSVF

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20900	51268	A	21023	3	1758	AYANLGTRFWREPLRVFPSLVL RASPLFGSALSAAMAQADIALI V\LFVMGHNLILNMKDHGFEVC AFNRTVSKVDDFLANEAKGTK VVGAQSLKEMVSKLNKPPRDQ YLLC/VKAGQAVDDFIEKLVPL LDTGDIII\DGGNSEY*GTPQDG CRDLKAKGILFEGS\GVSAGEE GD\RYGP\SLMPGGNK\EAWPHI KTIFQGIA\AKVGTGEPCC\DWV GDEGAGHFVKMVHNGIEYGD MQLICEAYHLMKDVLGMAQD EMAQAFEDWNKTELDSFLIEIT ANILKFQDTDGKHLLPKIQGTS AGARRGNRGSGT/WPFSGPGKY GVPV\TLI\GEAVF\ARCLSSL\KD ERI\QASKKLKGPQK\FQFDGD* EIISWEDIRKALYASKIISYAQGF MLLRHAA\TEFGWTLNYG\GIA LMWRGGCIIRSVFLGKIKDAFD RNP\ELQNLLLD\DFFKVQLFEN CQ\DSWR\RAVSTGVQGWAFP MPLFYRLPLSI*TGTSHEMLPAQ PSSRLQRGLLSGAHTL*NSWAK PGAVLFHTNWTG\HGGTVSSSS YQCLDHAAPVTLHDSTVPGHSI GLNGTAHLALCPIFCSVFFKSV
20901	51269	A	21024	317	885	MRWRSKSAWRAEPKSRTNSGT ASNVSPSRPLEC*R/FLRLVSGE LILALIAFICIETIMACSPCEGLY FFEFVSCSAFVVTGVLLIMFSLN LHMRIPQINWNLTDLVNTGLSA FLFFIASIVLAALNHRAGAEIAA VIFGFLATAAYAVNTFLAVQK WRVSVRQQSTNDYIRARTESRD VDSRPEIQRLDT
20902	51270	A	21025	4761	5127	LGSGDLPWEINPLSSCSLLREKD PPTTSGPQT\TSPRNISPISNPHTR TSKRLNRSGQAFLQNLLPQELA TSARNLTTRPRNACSPGFLLSR VPSVRDPTGNWTVQLTWQPLS EPLELWPKAL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20903	51271	A	21026	174	2238	LRSGDLPWEINPLSSCSLLHEKD PPTTSGPQT\TSPRNISPISNPRQR RHILSMDPKLRRRSWTWVGSLP LVFNHCRDASLIIHPGFRGVRPR RDVCLGPSPLATITDAELYVTL TVEGKSIPFLIDTEATHSTLPSFK GPVALASIHVQNVQIKRDKEGH YIMVKGSIQQEELTILNMYAPN TGAPRFIKQVLNDLQRDLDSHT IIMGDFNTPLSTLDRSTRQKVN KDIQDLNSALHQADLIDIYRTL HTKSTECTFFSAPHRTYSKIDHI VGSKALLSKCKRTEIIINCLSDH SAIKLELRIKKLTQNHSTTWKL NNLLLNDYWVHKEMKAEIKM FFEINENKNTTYQNLWDTFKAV CRGKFIALNAYKRKQERSKIDT LTSQLEELEKQEQTRSKASRRE EITKIRAELKEIETQKTLQKINES RSWFFEKINKIDILLARLIKKKR EKNQIDAIKNDKGDIATDPTEIQ TTIREYYKHLCPNKLENLEEMD KFLDTYTLPRLNQEEDESLNRPI TGSEIVAIINSLPTKKSPGPDGFT AKFYQRYKEELVPFLQKYKEEL VPFLLKLFQSIEKEGILPNSFSEA SIILIPKPGRDTTKKENFRPISLM NIDAKILNKILANQIQQHIKKLI HHDQVGFIPGMQGWFNIRKSIN VIQHINRTKDKNHMIISIDAEKA FDKIQQPSC
20904	51272	A	21027	1	181	MEEKEERKRRRKRKRRREEGR DGERKRMEKQKENQDPKDPPT TSGPQT\TSPRNISPISNP
20905	51273	A	21028	167	408	LGSRTFPWEINPPSSCSLLREKD PPTTSGPQT\TRPRNISPISNLVS GLFLLSSPTSLTIPQPLSSFNLDD TLQSLPSLNF
20906	51274	A	21029	449	663	LGSGDLPWEINTQSSCSLLCEK DPPTTSGPQT\TSPRNISPISNPDP TGNRTVQLTWQPVPEPLELWP KAL
20907	51275	A	21030	79	381	LGSGDLPWEINPLSSCSLLREKE PPTTSGPQT\TRPRNISPISNPELA TLAGNLATGPRNARSPGFLLSH VLSVWDPTENQTVQLTWQPLP QPLELWPKAL
20908	51276	A	21031	122	334	LRSGDLLWEINPLSS*SLLHEKD PPTTSSPQT\TSPRNISPISNPDPT ENQTVQLTWQPLPEPLELWPK AL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20909	51277	A	21032	109	320	LGSGDLP*EINPPSSCSLLREKD PPTTSGPQT\TSPRNISPISNPDPT GNRTVQLTWQPLPQPLELWPK AL
20910	51278	A	21033	620	717	
20911	51279	A	21034	3	678	GGGFSDRDRTIALQPGQQIWM WGIGKQVGGCGWLRGKNRVV GAAKDQSGTGEKFYFIPKAMG AMEGSGQRRTLPDPGAHRNPS GGYSATDCEGSRPAPGEINSHA SHTKPVWWFFTQTRMKFGAVT RIGGLPWEVNPLSSCSLLRE/KD PPTTSGPQSNQPRKHPPISNPEL VHVPEIWPLGQGMPAARIPPKP RPICVGPH*KSTVQLTWQPLPEP LELWPRLSD
20912	51280	A	21035	339	1098	LGSGDLPWEINPLSSCSLLREKD PPTTSGPPT\TSPRNISPISNPGET KETRFIRGPKTPAPVTDWEGSL PLVFNHCRDASLIIHPRFKGVRP RRDACLGPSPLAASPTFLGKGQ RLKTDTARLPRKPPRPSRTLSFS TAPRILSIVVPGSGHTLAFLDVT RHRLYRESKPVVGEEVDYSEW LSDVGKSEWSFSTCASSTSVNK HDTGRRLLGKRGGGMECSKGL CNFITMTKNIRSLAQMTIWQYL SPCREPV
20913	51281	C	21036	1	438	
20914	51282	A	21037	174	483	LRSGDLPWEINPLSSCSLLHEKD PPTTSGPQT\TSPRNISPISNPRQR RHILSMDPKLRRRSWTWVGSLP LVFNHCRDASLIIHPGFRGVRPR RDVCLGPSPLA
20915	51283	A	21038	590	824	PNSSWMRGEPKKDPPTTSGPQT \TSPRNISPISNPGRLSDYSPRFQ RCQTTQGRLPWSFTLSGKSRFS GEGATWGLKT
20916	51284	B	21039	1	1596	
20917	51285	B	21040	155	2206	
20918	51286	B	21041	1	831	
20919	51287	B	21042	75	474	
20920	51288	B	21043	38	1009	
20921	51289	C	21044	335	481	
20922	51290	B	21045	66	652	
20923	51291	B	21046	1	673	
20924	51292	B	21047	1	451	
20925	51293	B	21048	74	3516	
20926	51294	B	21049	783	3463	
20927	51295	B	21050	1	807	
20928	51296	B	21051	41	1700	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20929	51297	C	21052	18	381	
20930	51298	B	21053	1	3147	
20931	51299	B	21054	1	2586	
20932	51300	C	21055	756	1403	
20933	51301	B	21056	42	205	
20934	51302	B	21057	40	420	
20935	51303	B	21058	303	1170	
20936	51304	B	21059	1	2631	
20937	51305	B	21060	19	3093	
20938	51306	B	21061	23	241	
20939	51307	B	21062	84	1775	
20940	51308	B	21063	68	1542	
20941	51309	B	21064	74	2566	
20942	51310	C	21065	730	1023	
20943	51311	B	21066	67	1159	
20944	51312	B	21067	294	929	
20945	51313	B	21070	68	336	
20946	51314	B	21071	1	1992	
20947	51315	B	21072	1	4188	
20948	51316	C	21073	44	535	
20949	51317	B	21074	983	2636	
20950	51318	B	21076	289	1693	
20951	51319	B	21077	364	2393	
20952	51320	B	21078	471	590	
20953	51321	B	21079	1	1026	
20954	51322	B	21080	343	4253	
20955	51323	B	21081	1	819	
20956	51324	B	21082	648	894	
20957	51325	B	21083	1	1236	
20958	51326	B	21084	1	822	
20959	51327	B	21085	211	363	
20960	51328	B	21086	193	264	
20961	51329	B	21087	1	1260	
20962	51330	B	21088	143	3158	
20963	51331	B	21089	85	353	
20964	51332	B	21090	221	598	
20965	51333	B	21091	1	4878	
20966	51334	B	21092	171	362	
20967	51335	C	21093	320	408	
20968	51336	B	21094	1	1218	
20969	51337	B	21095	1	1761	
20970	51338	B	21096	315	1224	
20971	51339	B	21097	526	3482	
20972	51340	B	21098	41	4858	
20973	51341	C	21099	38	250	
20974	51342	C	21100	157	225	
20975	51343	C	21101	191	415	
20976	51344	B	21102	42	507	
20977	51345	C	21103	71	367	
20978	51346	C	21104	231	439	
20979	51347	C	21105	207	459	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20980	51348	A	21106	1	429	
20981	51349	A	21107	184	544	VRLLKILQLQRFKMYVQQLDL TYFLRKIKCTLENGIVMSNTEA ESGVQLKPGRWGASALYSSHHI IH*A*LLVPR*VSNVVCSRNDT* TKNKDTKNRRC*PKSSTRRGK* KRERKEKEVT
20982	51350	A	21108	3	1200	LSQKEEEEDTFIEEQQLEEEKLL ERERQRLHEEWLLREQKAQEE FRIKKEKEEAAKKRQEEQERKL KEQWEEQQRKEREEEEQKRQE KKEKEKTFMWKPSVDLFSHLA SLRTPIICQDKGNAYQEHFPEK KKKRSSQLAIPEGAFGYPHHLL AILGLRCSRKHNFPTSSPTLLIKS MFTTFGMEQCRRDDYDPDASL EYSEEETYQQFLDFYEDVLPEF KNVGKVIQF/KGLFEIQQCPRGK HCNFLHVFRNPNNEFWEANRDI YLSPDRTGSSFGKNSERRERMG HHDDYYSRLRGRRNPSPDHSY KRNGESERKSSRHRGKKSHKRT SKSRERHNSRSRGRNRDRSRDR SRGRGSRSRSRSRSRRSRRSRSQ SSSRSRSRGRRRSGNRDRTVQS
20983	51351	A	21109	789	907	
20984	51352	A	21110	236	1823	CPIQRQSPGPAQTGRWEPLPCT VPITLRMSEGSGGAGKMAALE KMTFPKKMTFPEKPSHKKYRA ALKKEKRKIRRQELARLRDSGL SQKEEEEDTFIEEQQLEEEKLLE RERERLHEEWLLREQKAQEEFR IKKEKEEAAKKRQEEQERKLKE QWEEQQRKEREEEEQKRQEKK EKEEALQKMLDQAENELENGT TWQNPEPPL\DFRVMEKDGVN CPFYSKTGACRFGDRCSRKHYF PTS\SPTLLIKSMFTTLGMEQC\R RDDYDPDASLEYSEEETYQQFL DFYEDVLPEFKNVGKVIQFKVS CNLEPHLRG\NIYVQYQSEEEC QAALSLFNGRWYV\AGRQLQC EF*TGDRWKMAICGLFEIQQCP RGKHCNFLHVFRNPNNEFWEA NRDIYLSPDRTGSSFGKNSERRE RMGHHDDYYSRLRGRRNPSPD HSYKRNGESERKSSRHRGKKSH KRTSKSRERHNSRSRGRNRDRS RDRSRGRGSRSRSRSRSRRSRRS RSQSSSRSRSRGRRRSGNRDRT
20985	51353	A	21111	289	366	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20986	51354	A	21112	1	1289	
20987	51355	A	21113	60	367	EELGYAGRGMGARQPPPARKA VSPLQERAEPVGSPG*GWRSRP STHGIASHGGPACSLCSLHFTFF VDFPSLFSPICLPEGWDWQQEQ PCLLYLSSPRCTQA
20988	51356	A	21114	1	653	RRRGSAAGGRAAERKAEVGA MNMAGGKAGKDSGKAKAKA V\SRSQR\AGLQFPVGRIHRHLK TRT\TSHGR\VGATAAVY\SAAI L\EYLT\AEVLEL\AGYAS\KDLQ SKSVSLPRHLQLAIPWVIEELDS LIQGLP*AGGGVIPSHPHKS\LIG KEGDSKKTALEGMLLTQPLSLP RHLYCNWDKKNNGDMWNFLP PVKWKSIDNYCRHDKRNICMF LDSEV
20989	51357	A	21115	1	1019	SVCWAGGAPRAHSTRTHAWLG RPAMEPGSVENLSIVYRSRDFL VVNKHWDVRIDSKAWRETGRP EP\QVASVEESGSDSGLC/HHSR FCHQLDFSTSGALCVALLVLGG LPGSTGLPRELRAILPLLQLRGH IQESRVSIVRWGGPGPRVSPTNL TPAFCAPGCENPKPSLTGSWSG R*VWIGPAPSLIRHRPHPAGRTH QLRV\HCSALGHPVVGDLTYGE VSGREDRPFRMMLHAFYLRIPT DTECVEVCTPDPFLPSL\DACWS PHTLLQSL\DQL\VAGLKGQPPD P*TRG*GGPRPGSPSALLPGHGR PPPPTTKPPETEAQRGPCLQWL SEWTLEPDS
20990	51358	A	21116	698	1472	RWAPRRGLSVDLDGGSSAPLCP PATTARLDAEPHGSLPNSCLWE CSCLLQGIWAAGPSGLSLHYPP LSSPLGSSPPSRPQRLVLIRAGR GGWVGSVGETMTSSYGHVLER QPALGGRLDSPGNLDTLQAKK NFSVSHLLDLEEAGDMVAAQA DENVGE\SSRTRGGGAGLGKGL SGVQTQRASAVWESSRLKMLS RVGRASLGQRMTA*GRLQLYP HAPKSVTDRSPCSSQVTKSWNR GALQHSMIFTKRCLFQTLKE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20991	51359	A	21117	50	1226	KMAEEVVVVAKFDYVAQQEQ ELDIKKNERLWLLDDSKSWWR VRNSMNKTGF\VPSTYVGR\EN SARKASIVKNLKDTLGIGKVKR KPSVPDSASPADDSFV\DPGERL Y\DLNMPA\YVKFN\YMAERED ELS\LIKG\TKVIVMEKCS\DGW WRGTYNGQVGWFPSNYVTEE\ GESPLGDHVGSLSEKLAAVVN NLNTGQVLHVVQALYPFSSSN DEELNFEK\GDVMDVIEKPEND PEWWKCRKINGMVGLVPQKL W*PLLQSIQLTSGLGTLTFQCGF IRPYIPGKFVGNPWYYGKVTRH QAEMALNERGHEGDFLIRDSES SPNDFSVSLKAQGKNKHFKVQ LK\ETVYCIWQRKSCTME*LVE HYK\KAPNFYNVNKGEKLYLV
20992	51360	A	21118	132	428	
20993	51361	A	21119	3	337	AKLAGAAVPVCARGRAAPLAA AALPAARL\PSGAGPAGLVSDV RRRPFARE/PEPRVP/SQPPALSA LGALALKLFSSPPSCWSFSVKT GVLVPWIMCISWPYFLSGNLLT MMW
20994	51362	A	21120	438	1066	LNQKGKGGRGEALKNDLVVAP PPSPRRGVR*EALHVPDTGPFK KPRKRK*NQRQREAERK*TFPR EEEARRETHGPLPAPRPPPPLCP/ PAASSAPRPGPKGAR*LSLSAE GRARRRSAGASGGAGAAATAA AAAAPEHPRGSEPRQPASPAPQ RERPRRPAPRLPPQCPRPSKGRA WTLQTTTGQKVCTGAGTRRA WRRAGAVRRAFWA
20995	51363	A	21121	1	924	
20996	51364	A	21122	1	435	
20997	51365	A	21123	1	524	
20998	51366	A	21124	1	602	MGKGSPAHAQGPGSFLHGGAG DQGRGRPITLYEDRGFQG\RHY ECSSDHPNLQAYLSRCNSVRVD SGCWVLYEQPNYSGLQ*FLRR GDYADHQQWMGLSDSVRSCR LIP\HASSHRLRIYEREDYRGQM VEITEDCSSLHDRFHLSEIHSFN VLEGSWVLYELPNYQGRQYLL RPGDCRWCQDWGATDARVGS LRRAVELY
20999	51367	A	21125	1	1239	
21000	51368	A	21126	298	408	
21001	51369	C	21127	92	241	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21002	51370	A	21128	33	191	RDDPRVRPPPNSHT*PQQEPGL* LIKCTSPPQAPAPRTVHGPYFY MRLIKMF
21003	51371	A	21129	3	1285	
21004	51372	A	21130	3	3468	QPGHTIYLLPTVVICNLLPCELD FYVKGMPINGTLKPGKEAALH TADTSQNIELGVSLENFPLCKEL LIPPGTQNYMVRMRLYDVNRR QLNLTIRIVCRAEGSLKIFISAPY WLINKTGLPLIFRQDNAKTDAA GQFEEHELARSLSPLLFCYADK EQPNLCTMRIGRGIHPEGMPGW CQGFSLDGGSGVRALKVIQQG NRPGLIYNIGIDVKKGRGRYIDT CMVIFAPRYLLDNKSSHKLAFA QREFARGQGTA
21005	51373	A	21131	3	451	
21006	51374	A	21132	2	107	LEGLEES/VRDRCKKEFTDLMIE MDSRLLGPTSKVK
21007	51375	A	21133	2	158	PGIPVL/DYRTYTDGFFSLPSKD GDKDVMITGKLDILKPQNQHR VFTVESRVI
21008	51376	A	21134	2	5632	FVRRTCRESRCWPGAETELDH WSLGEGVRGAMALQLWALTL LGLLGAGASLRPRKLDFFRSEK ELNHLAVDEASGVVYLGAVNA LYQLDAKLQLEQQVATGPALD NKKCTPPIEAS\QCHEAEMTDN VNPLLLVDPPRKRLVECGQLLK GI\CALRALSNISLRLFYEDGSG EKSFVASNDEGVATVGLVSSTG PGGDRVLFVGKGNGPHDNGIIV STRLLDRTDSREAFEAYTDHAT YKAGYLSTNTQQFVAAF
21009	51377	A	21135	168	5568	AREKCGGAMGAGSSTEQRSPE QPPEGSSTPAEPEPSGGGPSAEA APDTTADPAIAASDPATKLLQK NGQLSTINGVAEQDELSLQEGD LNGQKGALNGQGALNSQEEEE VIVRQVDHIDSEDVSDRDSDTE MTTKSAVVHDITDDGQEETPDI IEQIPSSESNLEELTQPTESQAND IGFKKVFKFVGFKFTVKKDKTE KPDTVQLLTVKKDEGEGAAGA GDHQDPSLGAGEAASKESEPK QSTEKPEETLKREQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21010	51378	A	21136	807	1162	ISYHGGRRRRPQ/PVGPLGSCRS*SSRRWSTTGRTTFRAGWKSCSTPPSTSSLPTSTGTW*GPGTSALLPPTPLPPPRAAATPCACACASESRMPAARALGLRVRRRLLEGRSGKDTQG
21011	51379	A	21137	1	562	
21012	51380	A	21138	1	423	
21013	51381	A	21139	1	1871	MTTFKEAMTFKDVAVVFTEEELGLLDLAQRKLYRDVMLENFRNLLSVGHQAFHRDTFHFLREEKIWMMKTAIQREGNSGDKIQTEMETVSEAGTHQEWSFQQIWEKIASDLTRSQDLVINSSQFSKEGDFPCQTE/ARTICNSHKTEI/FPRA/IGYKPSFSDVSHFDFHQQLHSGEKSHTCDECGKNFCYISALRIHQRVHMGEKCYKCDVCGKEFSQSSHLQTHQRVHTGEKPFKCVECGKGFSRRSALNVHH
21014	51382	A	21140	1056	2988	FCILIGDKIQTEMETVSEAGTHQEWSFQQIWEKIASDLTRSQDLVINSSQFSKEGDFPCQTEARTICNSHKTEIFPRAIGYKPSFSDVSLFDFHQQLHSGEKSHTCDECGKNFCYISALHI\HQRVHMGEKCYKCDVCGKEFSQSSHLQTHQRVHTVEKPFKCVECGKGFSRRSALNVHHKLHTGEKPYNCEECGKAFIHDSQLQEHQRIHTGEKPFKCDICGKSFCGRSRLNRHSMVHTAEKPFRCDTCDKSFRQRSALNSHRMIHTGEKPYKCEECGKGFICRRDLYTHHMVHTGEKPYNCKECGKSFRWASCLLKTSSESHSG\EKPFKC\EECGKGFYTISQCYS\HQRSHSGEKPYKCVECGKGYKRRLDLDFHQRVHTGEKLYNCKECGKSFSRAPCLLKHERLHSGEKPFQCEECGKRFTQNSHLHSHQR\VHTGEKPYKCEKCGKGYNSKFILYMHQ\RVHTGERPYNCKECGKSFGWASCLLKHQRLHSGENPFKCEECGKRFTQNSQLHSHQRVHTGEKPYKCDECGKGFSWSST\RLTHQR\RH\SRETPLKCEQHG\KNIV\QNSFS/EKLPEKVHQC*KKPYKCEDL/CGKGYNRRL*IL\DMHQR\VHMGEKTWKCRECDMCF\SQAS\SLRLHQNVHVGEKP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21015	51383	A	21141	154	1470	KDGDHMGYTYKVIERILEIGAF RPHMSLGQLQSARGVACLGCK GTCSGFEPHSWRKICKSC\NAA KRTTA*HLT*KNDRKLGRWLR DSKYSTLHLLG*KAGTASGFYK RNP\MI\LTNPIATGKDPTFDTIT YEWGSPWEFTQETGDCSYMGA HSPREEGSQLTGHQRGAFYRA ARPAHAPGLPIYD\QDPLALPVD FWRNELKTEWKEFVK\KYKSE GPSALGEVALPGQGWLAPRKE GE/GSRKKPEGGRRP/PAATTNG SLSDPSKEVEYVCELCKGAAPP DSPVVY\SDRAGYNKQWHPTCF VCAKCSEPLV\DLIYFWKDGAP WCGRHYCESLRPR/CAPACDEI\ IFAEDYQRVEDLAWHRKHFVC EGCEQLLSGLGVHRHPGVQLL VPQLAASPKRSLKGCPTPQPESP GIPTEKDKPGCARDPSLRVPDV TSKPSEINQ
21016	51384	A	21142	1	1332	
21017	51385	C	21143	147	272	
21018	51386	A	21144	160	374	ETPVSSRCEKHVSSPHLCPGIHR AVSLSSH\STCGRSWRSELHGPQ STNLSGNTELPLHFLFGAWQTG VFKM
21019	51387	A	21145	3	4366	LGAQQRELQEALGARAALEAL LGRLQAERRGLDAAHERDVRE LRARAASLTMHFRARATGPAA PPPRLREVHDSYALLVAESWRE TVQLYEDEVRELEEALRRGQES RLQAEEETRLCAQEAEALRREA LGLEQLRARLEDALLRMREEY GIQAEERQRAIDCLEDEKATLT LAMADWLRDYQDLLQVKTGL SLEVATYRALLEGESNPEIVIW AEHVENMPSEFRNKYYHYTDS LLQRENEWNLFSRQKAPLAS
21020	51388	A	21146	1	4617	RVIDCLEDEKATLTLAMADWL RDYQDLLQVKTGLSLEVATYRI VEHVAVEGVSKLWKPLWQKS QSLVISSGVSFTGGRLNLERLRR GPTPLASTESVKQVLVNNRMII DDEMVKTLAMSRTCSAPNPLT ADVKTWSRSYRSEDAATGPVL GVASTVALLEGESNPEIVIWAE HVENMPSEFRNKSYHYTDSLL QRE\NERNLFS\RQKAPLASFNH SSALYSNLSGHRGSQTGTSIGG DARRGFLGSGYSSSATT

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21021	51389	A	21147	2	435	
21022	51390	A	21148	1	1233	MCEEETTALVCDNGSGLCKAG FAGDDAPRAVFPSIVGRPRHQG VMVGMGQKDSYVGDEAQSKR GILTLKYPIEHGIITNWDDMEK KKEAEELARNMAIQQELEKEK QRVAQQKQQQLEQEQFHAFEE MIRNQELEKERLKIVQEFGKVD PGLGGPLVPD/SGEALLRCVPHL NSLIHTAFRLSHNCKAS*ATCG GQVLETWSTEQLRKYSHNRWI APCGGAWAAVPTVSPVSQCQH CPGSGDMWNSLWKTDEE*IYH YPCSHPQAKCWV*LLQHRERR RTFPHTGSAGPHHTGLDSCKQF *AVREHGVR\GIHETTYNSIMKC DIDIRKDLYANNVLSGGTTMYP GIADRMQKEITALAPSTMKIKII APPERKYSVWIGGSILASLSTFQ QMWISKPEYDEAGPSIVHRKCF
21023	51391	A	21149	2	1273	PRVRPRVRPRVRSLGEEPLIPSV LRSPAHSATHTMCEEETTALVC DNGSGLCKAGFAGDDAPRAVF PSIVGRPRHQGVMVGMGQKDS YVGDEAQSKRGILTLKYPI\EHG \IITNWDDMEKIWAPLLLTMEL RVSTWKRHPTLLTEAPLNPKAN REKMTQIMFETFNVPAMYVAI QAVLSLYASGRTTGIVLDSG\D GVTHNVPIYEGYALPHAIMRLD LAG\RDLTDYLMKIL/AKRGGY SFVTTAEREIVRDIKEKLCYVAL DFEK*\MATAASSSSLE\KSYELP DGAGLSPIGKWTLP\CPETLFQP YFISNGVPLEFNDDNLTIPSMK\ CDIDIP*GLICPTMFLSGGTTHV PWALLDRIQKENPSPGPPGTMK IKI\IAPPEREVTSVWD/LGGSILA SLSTFQA\MWISKPEYDDAGPSI VHRKCF
21024	51392	A	21150	95	674	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21025	51393	A	21151	1	1536	MGGGEQGTLRTAENQGLQVCP GEAGSSLGFSGNTPTNGLPARG DQTSYRDFWSGPQFPDTSLRTA APGAREQCGTHGGEGSTLEGSR PDVPQDLFSPTLGFYGSTYPELE QGMLGGH*G/PAENQGLQVCP GEAGSSLGFSGNTPTNGLPARG DQTSYRDFWSGPQFPDTSLRTA APGAREQCGTHGGEGSTLEGSR PDVPQDLFSPTLGFYGSTYPELE QGMLGGHVEASREYQMLSHV GNPDYPHALATEQATSPSTESG SAGFKGVALAMLSKITMCVRJG ILVFQQDQGSMCKAFSTTGMG LVTYLLTCRAWSRLQCGASYR AHDVNVLPGCSGPAALLLGDW FSLHSSDAVLPAQGQGMLSQG EADACITLPHLFPSREVVFLLGL EAGGLIPGAEGPPEDMGLVRGP PAVAAGPPPRWLSPEFCLLQYS EEEGCKEPLWLKVEAEVSTLYR FMPTGFTRGPFNIEHREWGNTT ATWTRMISNHNKHSQRGRKMT ARLPCGGAPHFSDRTDDKWRR SSLLTRSGCQTERLLTSQTEPLP AGGSPHFSNGETGQRRSSPPQR GCDRPQALLTSKTEQQRKSASH ISYDERPGKDAPHFLDGMVAG KRRSSLSRLGSQA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21026	51394	A	21152	689	2176	PATSPTSRAMAQPSAPAASMLL PCPECPSGPRFMTCCLSVSTFCS PSLRRPPGSIKGSSGLGGG\SSRT SCRLSG\ALGAGSCRLGSAGGL GSTLGG\NSYSSCYSFGSGGGY GSSFGG\VDGLLA\GGEKA\TMH NLIDF\LASYLDKVPCPWKEAN TELEV\KIRD\WYQRQ\APGPAR DYSQYYRTIEELQNKILTATVD NANILLQIDNARLAC/ADDFRT K\F\ETEQALRL\SVEADINGL\R RVL\DELTLARADL\EMQIENLK EEAWPTLKERTTEGRRLNALR GQVGW*RSMLEMDAAPGVDL SRILNEMPSCVDHRVTRCINRP GAELKLGSGGWTEELKREVAT NSELVQSGKSKISEL\RRTMQAL EIELQSQLSMKA\SLEGNLGGD RATAYCVQLS\QIQGL\IGSGED QL\AQLR\C\EMEQQ\NQDYKILL DVKTRLEQEIATYRRLLEG\ED AHLT\QCKKEPVTTRQV\RTIVG KRSRD\GKVILLPRSRFHQTTR
21027	51395	C	21153	58	252	
21028	51396	A	21154	2	190	
21029	51397	A	21155	2	432	KMADGVDHIDIYADVGEEFNQ EAEYGGHDQIDLYDDVISPSAN NGDAPEDRDYMDTPPPVPGYG PPPGPPPPQQGPPPPPGPFPPRPP GPLGPPLD/TLAPPPHLPG\PP\PG \APPPA\PHVEPSFLFLPPINSGH GLHSDRPRFH
21030	51398	A	21156	1	1070	MGGIGARAAAAGKGRRRRARA PPGLPPPTSDGGGGAAAASSLR RLHAAPPPGPSAAGSASRVPPTI GSEAAPAREDRRQLHSGRVRAS GSPRLTRPRPVKRRGRTRGGGA PRQGSAARPRGGKGAHSAVAS ARAAAGPGSASRPHGAASAAG TWALTYLVELFADIRVNVYVV HAVRHLPSACAAAAAAASCRF ALVGVGSEASSKKLMDLLPKR ELHGQNPVVTPCNKQFLSQFE MQSRKTTQSGQMSGEGKAGPP GGSSRAAFPQGGRGRGRFPGA VPGGDRFPGPAGPGGPPPPFQD PSVNSDPVCGTFG/EH*PPGYQT PSNLSVRPMAKPKPEGTDLSRS REGFFKSRFAPN

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21031	51399	A	21157	63	1750	MKMAGGVNHIDIYADVGE*FN QEA\EYGGHDQIDVHDDAISPS ANNGDAPEDRDYMDTLPPTVG DDVGKGAAPNVVYTYTGKRIA LYIGNLTWWTTDEDLTEAVHS LGVNDILE\IKFFENRANGQSKG FALVGVGSEASSKKLMDLLPK RELHGQNPVVTPCNKQFLSQFE MQSRKTTQSGQMSGEGKAGPP GGSSRAAFPQGGRGRGRFPGA VPGGDRFPGPAGPGGPPPPFPA GQTPPRPPLGSFQGPPG\PPGPPP PGQVLPPPLAGPPNRGDRPPPPV LFPGQPFGQPPLGPLPPGPPPPV PGYGPPPGPPPPQQGPPPPPGPF P\PRPTGSNLGHPLTLAPPSASFP GP\PP\GAPPPSPHVNPAFFPPPT NSGMPTSDSRGPPPTDPYGRPPP YDRGDYGPPGREMDTARTPLS EAEFEEIMNRNRAISSSAISRAV SDASA/GVDYGSAIETLVTAISLI KTIPKYPADD/RCTKFLISSLQD CLHGIESKSYGSGSRRRERSRER DHSRSREKSRRHKSRSRDRHDD YYRERSRERER\HRDRDRD\RD RERDREREYRHR
21032	51400	A	21159	1	96	TNFKSGLLGLAAED*HCPIASE AP*TITDAEL
21033	51401	A	21160	1	1056	MWKGPKGLDMYGKSSVSPKTS DILGRDTLLLALKVQTVVLQTA CGEGHVAGNCGRPLETEGSLQ LTATKKLRDSVLQPKSPEFCQQ FTRAWNRTQVPDETEAPAGTY AAQSGDLPWEINPLSSCSLLHE KDPPTASGPQTDQPKEHLTNFK SGFRGVRP/LQGRLPWSFTLSGK SRFSGEGASTPTPSLCVSTPSPPF WGARNTQPLLLHPEWQ/CPLF* RSKYPNLVSLCPSPLFPRPDLLS L/SAQSLISAPQPLISLCPNPLFPC PDLLSLHPNPLFPRPNPFPAFLE GACYKCQKSGHQAKECLQPGI PPKLRPICAGPHWKSDCPTHLA ATPRAPGTLAQGSLTASQIFLA
21034	51402	C	21161	283	408	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion; \=possible nucleotide insertion)
21035	51403	A	21162	3	505	ILNPVSGLFLFSSPLSLNLSSLSL NLFLLSILAPHFNLSILLISIPFIFP LEIELSNSPGSHSQSPWNSGPRL SDSFPDLLGLAAEE*HCPIASEA FSQTYRAYLSLSLSLSLSPEPPT AGDGVT/HSSPVASTTITVLGQT /SKPAQCWPLPKVCCHHSLTSD YVHPRP
21036	51404	A	21163	164	420	LANFCEESGAGEPGSHSQSPWN SGPRLSDSFPDLLGLAAEDRHC PIASEAPLLQRKSLYKSPCTSSTI S*CCIPRSGISESLSVN
21037	51405	A	21164	50	298	
21038	51406	A	21165	49	433	SSSGIWPSHSQSPLRSSPAKLLS RFRCSLSSLLLCLATLLLVWQP LPEPLELWPKA/HLTDSFPDLLG LAAED/W/HCPIPSEAP*TLTDAE LRVTLTVEGKSIPFGAGKEVTL ESYWVSLTLSFLICYMII
21039	51407	A	21166	282	374	CDLFLPHPN*SMYFVISPTPKKV LCNSPHT
21040	51408	A	21167	71	333	LRSGDLPWEINPLSSCSLFREED PPTTSGPQTNQPKEHLTNFKSA AED*RCQFASEAP*TITDAKLRV SLTAEGLLATLFLNPKPEY
21041	51409	A	21168	113	342	AFGCFTTGVGRVTDSDGPLYTG PWAPGSHSQSPWNSGPRLSDSF PDLLGLAAED*HCPIASEAPFLT LIFLLCVIQ
21042	51410	A	21169	301	608	TFTPLKSYIKAPSSAGPVAEQE MTPEGKVGAGPE*LTWKNQFL FY
21043	51411	A	21170	2	724	FLVSLMLPPAVVMLNHCYSLIF TNALVKRLFAWNMLSELATCA GNLATGPRNARSPGFLLSCVPS VRDPTGNQTVQLTWQPLPEPLE LWPKA/HLTDSFPDLLGLATED *HSPIASEAPWAIMDAELRVTL TVEDRDSSSSSSSSSSSSSSSSSS SSSSSSSSSSSSSSQSSSSSSSPCD LFLPHPN*SMYFVISPTLKKVLY NVTHP*EVSL*FSPPLRMYFVRS IPCPQNIALNSTAYP
21044	51412	A	21171	442	501	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21045	51413	A	21172	266	1003	SCMCLALDPCNHGEGHQPDFS GVKFRRHGADNHEASAATATT AAATTVAAAAAAAAAAAAAR VTLTGSHFQSPWNSGPRLSDSF PDLLSLATED*RCPIASEVPWTI TEAELRVTLTVEGKSIPCLIDTG ATHSTLPSFQGPVSLAPITVVG\I DGQASKPL\KTPPLW\CQLGQH SFMHSFLVIPHL/CPIFLIRGRNIL TKLS\ASLTIPGSTANISLVAFFP NPKPPLCPLTSPQYHPLPQDLPS A
21046	51414	A	21173	2	245	LTALLRKSLDPRLISTGENTQTA ETMGPLSAPPCTQHITW\KGLLL TAETPKPSISSSNLNPRGGHGRL CALILLILEDSG
21047	51415	A	21174	3	324	
21048	51416	A	21175	3	552	
21049	51417	A	21176	3	435	
21050	51418	A	21177	3	1459	GAVRTWGRGFQTEKCQASLLN FWNPPTTAQVTIEAEPTKVSKG KDVLLLVHNLPQNLAGYIWYK GQMKDLYHYITSYVVDGQIIIY GPAYSGRETVYSNASLLIQNVT REDAGSYTLHIVKRGDGTRGET GHFTFTLY\LIPWTLLYL*RSLA QVSHYETPGKTAPPCGSTA**L N*PPDLTLFSPVLFLLKYPVPGQ AFQYPKGLKTIGSSITHL*DVLG KGSCRENIPRAAK*D*N*EDSST ACSK*GPQVETPKPSISSSNLYP REDMEAVSLTCDPETPDASYL WWMNGQSLPMTHSLQLSKNK RTLFLFGVTKYTAGPYECEIRN PVSASRSDPVTLNLLPKLPKPYI TINNLNPRENKDVLAFTCEPKS ENYTYIWWLNGQSLPVSPRVK RPIENRILILTQCSREMKQGPY\ QCEIQ\DRYGG\IRSYPVTLECP/ HITTKHSGLYACSVRNSATGME SSKSMTVKVSAPSGTGHLPGLN

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21051	51419	A	21178	3	1445	IRADPAHELENCSCPGKRLSTE RGRTAQLTAVLREFLDPRLISTE ENTQAAETMGTLSAPPCTQRIK WKGLLLTASLLNFWNLPTTAQ VTIEAQPPKVSEGKDVLLLVHN LPQNLTGYIWYKGQMRDLYHY ITSYVVDGEIIIYGPAYSGRETA YSNASLLIQNVTREDAGSYTLH IIKGDDGTRGVTGRFTFTLHLET PKPSISSSNLNPRETMEAVSLTC DPETPDASYLWWMNGQSLPMT HSLKLSETNRTLFLLGVTKYTA GPYECEIRNPVSASRSDPVTLNL LPKLPKPYITINNLNPRENKDVL NFTCEPKSENYTYIWWLNGQSL PVSPRVKRPIENRILILPSVTRNE TGPYQCEIRDRYGGVRSDPVTL NVLYGPDLPRIYPSFTYYRSGE VLYLSCSADSNPPAQYSW\TINE KFQL\QGQKLFIP\HITTKHSGLY V\CSVRNSATGKESSKSMTVEV SGKWIPASLAIGF
21052	51420	A	21179	3	1380	TAQLTAVLREFLDPRLISTEENT QAAETMGTLSAPPCTQRIKWK GLLLTASLLNFWNLPTTAQVTI EAEPTKVSEGKDVLLLVHNLPQ NLTGYIWYKGQMRDLYHYITS YVVDGEIIIYGPAYSGRETAYSN ASLLIQNVTREDAGSYTLHIIKG DDGTRGVTGRFTFTLHLETPKP SISSSNLNPRETMEAVSLTCDPE TPDASYLWWMNGQSLPMTHSL KLSETNRTLFLLGVTKYTAGPY ECEIRNPVSASRSDPVTLNLLPK LPKPYITINNLNPRENKDVLNFT CEPKSENYTYIWWLNGQSLPVS PRVKRPIENRILILPSVTRNETGP YQCEIRDRYGGIRSDPVTLNVL YGPDLPRIYPSFTYYRSG\EVLL LVLFCGTLNPP\AQYSWTINEKF QLPGQKLFIRHITTKHSG\LYVC SVRNSATGKESSKSMTVEVSAY SSSINYTSGNRN

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21053	51421	A	21180	2	1341	TEGGRTAQLTAMLRQLLDPRLI STEENTQAAETMGPLPAPSCTQ RITWKGLLLTASLLNFWNPPTT AEVTIEAQPPKVSEGKDVLLLV HNLPQNLPGYFWYKGEMTDLY HYIISYIVDGKIIIYGPAYSGRET VYSNASLLIQNVTRKD\AGT\YT LHIIK\RGDETREEIRHFTFTLYL ETPKPYISSSNLNPREAMEAVR LICDPETLDASYLWWMNGQSL PVTHRLQLSKTNRTLYLFGVTK YIAGPYECEIRNPVSASRSDPVT LNLLPKLPIPYITINNLNPRENK DVLAFTCEPKSENYTYIWWLN GQSLPVSPGVKRPIENRILILPSV TRNETGP\YQCEIRDRYGGIRSY PVTLNVLYGPDLPRIYPSFTYYR SGENLDLSCFTESNPPAEYFWPI *GKFQQSGQKLFIPQITRNHSG LYACSVHNSAAGKEISVSLFRH
21054	51422	A	21181	1	1532	MTQFPMDKRQGRSRSVAITNT AVTSLEWVPFHAFAIPRSTLVS QQRLSTERGRTAQLTAVLREFL DPRLISTEENTQAAETMGTLSA PPCTQRIKWKGLLLTASLLNFW NLPTTAQVTIEAEPTKVSEGKD VLLLVHNLPQNLTGYIW\YKGA MR\DLYHYVTSYVVDGQIIKYG \PAYSGRETAYSNASLLIQNV\T RED\AGSYTLHIIKGDDGTRGVT GRFTFTLHLETPKPSISSSNLNPR ETMEAVSLTCDPETPDASYLW WMNGQSLPMTHSLKLSETNRT LFLLGVTKYTAGPYECEIRNPV SASRSDPVTLNLLPKLPKPYITI NNLNPRENKDVLNFTCEPKSEN YTYIWWLNGQKPP/VSSPRVKR PH*KTGSLIPTPVFTRNETGP\YQ CEIRAR\YGG\IRSDPVTLNVLY GPDLP\RIYPSFTYYRSGGKSSY LSCFCGTSNPP\AQYSW\TIN*K VFSLPGTKALYSRHITTKHSGL YVCSVRNSATGKESSKSMTVE VSDWTVP
21055	51423	B	21182	28	29751	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21056	51424	A	21183	158	1660	EASLLEDDDGMVYLRPLTSHQ YRTAQLRAMLRKFLDPRLSSTE ENTQAAETMGPLSAPPCTQRIT WKGLLLTASLLNFWNPPTTAQ VTIEAEPTKVSKGKDVLLLVHN LPQNLAGYIWYKGQMKDLYH YITSYVVDGQIIIYGPAYSGRET VYSNASLLIQNVTREDAGSYTL HIVKRGDGTRGETGHFTFTLYL ETPKPSISSSNLYPREDMEAVSL TCDPETPDASYLWWMNGQSLP MTHSLQLSKNKRTLFLFGVHK VHCRDPMECEIREPS*VASRS*P SSPWNLLPKL\PKPYITI\NN\LNP REKKDVLAFT\CDP\KSRNYTYI WWLNGQSLPVSPRVKRP\IENR DPSFLP\SVTRNETGP\YQCEIRD \RYGG\IRSYPVTLNVLYG\PDLP RIYPFISPIYHFREENLRTLSCFC GTFNPPGRVFLGTINGGSFQVIQ GQKALYSPRITTKHSGA/LYAW LCSVTSRPLAWESSQIPWTV\KV SGSFQGTGTSSWGLNPL
21057	51425	A	21184	927	1378	QPPTLRSWDCWFAWGKRQLM SSP/STEPQVCFTIEGHEIDFLLG TGMAFSVLISCPG*LSSRSVTIR GILG*PVTRYFSHLLSCNWETLL FSHNAKTQGGGTLTLPKPSKSH RPWAVRGLAPGPAAAVLNFSP GLSCLPTGQGLGPAAHHA
21058	51426	A	21185	1	221	ILLAQLESQDGDILRQRDEFDLL VAGEICRFSALIEELE\EKNERPA RELLTVRPEPEPCPTCAVLRLLH LCLA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21059	51427	A	21186	335	1963	VCDPALPPWAKQREWALEGSH SSRTSMGLLVASVTSLGRWKF NCPI/CVQGTLKEAGSLSNCG/H KNFCRACLT\RYCEIP\GPD\LEE SP\TCP\LCKEPFRP\GSFRPNWQ LANVVENIERLQLVSTLGLGEE DVCQEHGEKIYFFCEDDEMQL CVVCREAGEHATHTMRFLEDA A\APYREQIHKCLKCLRKEREEI QEIQSRENKRMQVLLTQVSTKR QQVISEFAHLRKFLEEQQSILLA QLESQDGDILRQRDEFDLLVAG EICRFSALIEELEEKNERPAREL LTDIRSTLIRCETRKCRKPVAVS PELGQRIRDFPQQALPLQREMK MFLEKLCFELDYEPAHISLDPQ T\SHPKLPLVPRTIQR\AQFS*QM GRTSPDNPQ\RF\DRATCVSRPT LGITGGRHTWVVSIDLAHGGSC TVGVVSEDVQRKGELRLRPEE GVWAVRLAWGFVSALGSFP\TR LTLKEQPRQVRVSLDYEVGWV TFTNAVTREPIYTFTASFTRKVI PFFGLWG\RGS\SFSLSSLRRSSY LLSSKYRTHINPSTMWT
21060	51428	A	21187	217	397	
21061	51429	A	21188	529	1526	YCGRVGELAAGELVFLWSRVG PQNPRSSRLPPPTLAMFLTRSEY DRGVNTFS\PEGRLFQVEYDIEA IKLGSHSQLAPRHREGV\ALAV\ EKRIYLPHLMGAQAGI*GKLLG DLMLHIGLLPIEWGLICLMLKT FNSIKSRVGRHR/YPWGSPYNG GH*QWESFEPKLCPNLGFSSFG EEDAESRVPMS\RPLGSSHLFIW EELYEKGTPSLFP*GTPFWGPFV PVWMARSQFGSGFQRGAPRAP LPRKFPPTSPMTFERSPSSPSPHP SLKQVMGGRKLNANQTIEPRPT VPALAENFPHCSQRKKLEEVIQ GHFKESWILRTSLGTISVLNNVP
21062	51430	A	21189	211	382	TSVSPSVPPLPC*RHPGEPQTGN NASNGTSSSRDESRPPVRVVPPP QTAVAITLSTA
21063	51431	A	21190	3	96	FFFPPQKYD*DR*EHPRFHKTLR NWRVGAQ
21064	51432	A	21191	1	1320	
21065	51433	A	21192	1	339	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21066	51434	A	21193	289	3694	MAFVPVIPESYSHVLAEFESLDP LLSALRLDSSRLKCTSIAVSRK WLALGSSGGGLHLIQKEGWKH RLFLSHREGAISQVACCLHDDD YVAVATSQGLVVVWELNQERR GKPEQMYVSSEHKGRRVTALC WDTAILRVFVGDHAGKVSAIK LNTSKQAKAAAFVMFPVQTIT TVDSCVVQLDYLDGRLLISSLT RSFLCDTEREKFWKIGNKERDG EYGACFFPGRCSGGQQPLIYCA RPGSRMWEVNFDGEVI
21067	51435	A	21194	2	128	
21068	51436	A	21195	1041	2238	LLHPAQRSLSKDGTKESLEDAA LMGEEGKPEINQQLSLESMELD ELALEKYPIAAPLVPYPEKSSED GVGNPEAKILSGTPTYKRRVISL LVTIENHTPLVELSEYLGTNTLS EILDSPWEGAKNVYKCPECDQ NFSDHSYLVLHQKIHSGEKKHK CGDCGKIFNHRANLRTHRRIHT GEKPYKCAKCSASFRQHSHLSR HMNSHVKEKPYTCSICGRGFM WLPGLAQHQKSHSAENTYEST NCDKHFNEKPNLALPEETFVSG PQYQHTKCMKSFRQSLYPALSE KSHDEDSERCSG\CGDNFFSFSK FKPLQCPDCDMTFPCFSELISHQ NIHTEERPH*\CKTCEESFALDSE LACHQKSHMLAEPF\KCTVCGK TFKSNLHLITHKRTHIKKHHVK
21069	51437	C	21196	156	389	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21070	51438	A	21197	1	2466	MLSRLFRMHGLFVASHPWEVI VGTVTLTICMMSMNMFTGIAG LFTIFSSFVFSTVVIHFLDKELTG LNEALPFFLLLIDLSRASTLAKF ALSSNSQDEVRENIARGMAILG PTFTLDALVECLVIGVGTMSGV RQLEIMCCFGCMSVLANYFVF MTFFPACVSLVLELSRESREGR PIWQLSHFARVLEEEENKPNPV TQRVKMIMSLGLVLVHAHSRW IADPSPQNSTADTSKVSLGLDE NVSKRIEPSVSLWQFYLSKMIS MDIEQVITLSLALLLAVKYIFFE QTETESTLSLKNPITSPVVTQKK VPDNCCRREPMLVRNNQKCDS VEEETGINRERKVEVIKPLVAET DTPNRATFVVGNSSLLDTSSVL VTQEPEIELPREPRPNEECLQIL GNAEKGAKFLSDAEIIQLVNAK HIPAYKLETLMETHERGVSIRR QLLSKKLSEPSS\LQYLPYRGY\ NYSLW*WGACCENVIGYMPIP VGVAGPLCLDEKEFQVPMATT EGCLVASTNRGCRAIGLGGGAS SRVLADGMTRGPVVRLPRACD SAEVKAWLETSEGFAVIKEAFD STSRFARLQKLHTSIAGRNLYIR FQSRSGDAMGMNMISKGTEKA LSKLHEYFP*NCRF*AV\SGNYC TDKKPAAINWIEGRGKSVVCET VIPAKVVREVLKTTTEAMIEVN INKNLVGSAMAGSIGGYNAHA
21071	51439	A	21198	236	3022	GEGSFRSATALTGARLSVGAGV RWPLVRSGGSKDSVATMLSRL F\RMHGLFVASHPWEVILGTVT LTICMMSMNMFTGNNKICGWN YECPKFEEDVLSSDIIILTITRCIA ILYIYFQFQNLRQLGSKYILGIA GLFTIFSSFVFSTVVIHFLDKELT GLNEALPFFLLLIDLS\RASTLA KFALSSNSQDEVRENIARGMAI LGPTFTLDALVECLVIGVGTMS GVRQLEIMCCFGCMSVLANYF VFMTFFPAC
21072	51440	A	21199	1	450	CKSRGSNLRVHFKNTRETAQAI KGMHIRTATKYLKDVTLQKQC VPFRRYNGGVGRCAQAKQWG WTQGRWPKKSAEF\LVIEHIQV NKAPKMRRRTYRAHGRINPYM SSPCHIEMILTEKEQIVPKPEEEV AQKKKISQKKLKKQKLMARE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21073	51441	A	21200	1	876	
21074	51442	A	21201	1	1725	
21075	51443	A	21202	278	889	SVKMVRYSLDPGGTPRKSCK/S QRGSNLRVPFKDHS*KLPQAHQ RVCHIRKSPTKY\LKDVHLTRN QCVPIPDRYNG*QLGQVCRRHK QMGPGTTKGR\WPQKGVLKFL PAHALKTAE\SNAEL\KGLDVDS LVIEHI\QVNKAP\KM\RRRTYR AHGRINPYMSSPCH\IEM\ILTEK EQIVPKPEEEVAQKKKISPEETE RNKNLLARE
21076	51444	A	21203	1	1923	
21077	51445	A	21204	1	280	
21078	51446	A	21205	1	109	
21079	51447	A	21206	1	638	
21080	51448	A	21207	1	396	
21081	51449	A	21208	26	969	HGVGCRDGLPMECRFLCQIFM AFMQMNSYCARHKKATRRTV* /CRNQDMTESSQKWTGKGSAV EHLVESGEWTMHPARPVSACR CPSDCHVPLSPGACWPKLECLS EGSSYISDGKEYLFYLNVCGET EIQFCNKKQAAVCQVKKSDTS QVKAAGRYHNQTLRPSESSWS LLFVVLVFFPGVHSPFSLDEALT LCPQNCLPPGTVSAPLNCVYPL ALSAAVALAAGSELMECHRLV NSLEVSTAAQGQSSKTQFYACL CRLSTHLWKYSEESGRRLVCSF YQPSELNPALNLSFLVGTRLQE GAALLFIQSGFTIV
21082	51450	A	21209	1	465	
21083	51451	A	21210	217	453	
21084	51452	A	21211	1	840	
21085	51453	A	21212	1	663	
21086	51454	A	21213	176	957	DEPIGVPLLSAPPAGTTKIKADQ LHLQGAAPKICPCLQDGSLGQH YCPFVSFSRYYINLCQKIYKGPL GCSERASICRRTTTGDVQVLG\L VHTQK\LGVIGPRVVVTTSKRY PCGGNKTASSVIELTCTKPVGR PAFKRFEIDSCTYYFSWDSGAA CAVKPQEVQMVNGTITNPINGK SFSLGDIYFKLFRASGDMRTNG DNYLYEIQLSSITSSRNPACSGA NICQVKPNDQHFSRKVGTSDKT KYYLQGNPWLPTKFHI

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21087	51455	A	21214	3	7616	SPVEPRSPRAPAPSPPPPLPWRR DPVPGAAPSSRAPLASRPPRSSG PGAMGAAAGRSPHLGPAPARR PQRSLLLLQLLLLVAAPGSTQA QAAPFPELCSYTWEAVDTKNN VLYKINICGSVDIVQCGPSSAVC MHDLKTRTYHSVGDSVLRSAT RSLLEFNTTVSCDQQGTNHRVQ SSIAFLCGKTLGTPEFVTATECV HYFEWRTTAACKKDIFKANKE VPCYVFDEELRKHDLNPLIKLS GAYLVDDSDPDTS
21088	51456	A	21215	2	184	VNCQPLGMISLMKR\PPGFSPFR SSRIGEIKEETTSHLRSCEYKGR PPKAGAEPASEREVS
21089	51457	A	21216	1	203	
21090	51458	A	21217	1	1107	
21091	51459	A	21218	1	915	
21092	51460	A	21219	1	1932	
21093	51461	A	21220	2	746	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21094	51462	A	21221	1	2157	MGFPLRPSPAHLSSGRQQFPAK EERLLLSLTQESQSEEIDCNDKD LFKAVDAALKKYNSQNQSNNQ FVLYRITEATKTVGSDTFYSFK YEIKEGDCPVQSGKTWQDCEY KDAAKAATGECTATVGKRSST KFSVATQTCQITPGGWFILWHC PGGKLTISDYPNSSRVLHCTQC VQGLNRRTRRHKTCPPLQAAS QIEERIGFEGRPGLESFRAPCLL ASPFPCLEKGAEGPVVTAQYDC LGCVHPISTQSPDLEPILRHGIQ YFNNNTQHSSLFMLNEVKRAQ RQAAP/GREFSSMDTFEGYEGA EDMEKLAGPFPVG*QSRNLFLQ IRFPGEERKHPGRKRRTR*GSN GDRQHQEGACWGVHAG*LLR GRRLVSRRGRGARGPPPRRAAL PAVAPAPRLQSARIPERGDGDD GVRRWGHREAIGS*GQS/LS/CN GIIILIKEERLPCPFHCISLMKRPP GFSPFRSSRIGEIKEETTVSPPHT SMAPAQDEERDSGKEQGHTRR HDWGHEKQRKHNLGHGHKHE RDQGHGHQRGHGLGHGHEQQ HGLGHGHKFKLDDDLEHQGGH VLDHGHKHKHGHGHGKHKNK GKKNGKHNGWKTEHLASSSED STTPSAQTQEKTEGPTPIPSLAK PGVTVTFSDFQDSDLIATMMPPI SPAPIQSDDDWIPDIQIDPNGLSF NPISDFPDTTSPKCPGRPWKSVS
21095	51463	A	21222	207	424	HHINCVLLYLQSHLRS\CEYQG\ RPPKAGAEPASE\REVSLTNWA ESSTPRHIAPTTSASNLEMEGQE ERWDRI

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21096	51464	A	21223	170	1487	IMKLITILFLCSRLLLSLTQESQS EEIDCNDKDLFKAVDAALKKY NSQNQSNNQFVLYRITEATKTV GSDTFYSFKYEIKEGDCPVQSG KTWQDCEYKDAAKAATGECT ATVGKRSST\KFSVATQT\CQITP AEGPVV\TAQLRTCLG/CVWHPI IQRQSPDLEPILRHGIQYFNNNT QHSSLFTLNEVKRAQRQVVAG LNFRITYSIVQTNCSKENFLFLT PDCKSLWNGDTGECTDNAYIDI QLRIASFSQNWD\IYPGKDVVQ PPTKICVGCPRDIPTNSPELEETL THTITKLNAENNAISYFKIDNVK KARVRVVAGKKYFIDFVAR\ET TCSK\ESNEELTESCETKKLG\Q RLG\CNAE\VYVVPW\EKKIYPT/ VFNCSTTGEWIFT*WKRPPRVF SPFRS\SRIGEIKEET\TSHLRSCE YKGRPPK\AGAEPASEREVS
21097	51465	C	21224	21	281	
21098	51466	A	21225	204	441	QISQVLIICNQK*VILTGNFLDT YF*TTFINKKIDELRLCA/CAVA HSYNTTLCKKPRWKDCLRPAV QDQPVQHSETLSL
21099	51467	A	21226	333	604	SSDRITKPPSAEFLPLQRTFLHSL QDTVIELLH*DLETPPLTVLQNH PSLPRPIPAPPTLCPQTRWPHLR GHQGILAASHILETALAAIF

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21100	51468	A	21227	846	3269	GFMEVLRDPIKKNSSESKPAQS GFSRGNSPLSCPESVEASPAVNE KSVYSTHNYGTTQRHGCRGLP YADHNYGAPPPPTPPASPPVQTI IPRSDLNGLPSPVEERCGDSPNS EGETVPTWCPCGLSQDGFLLNC DKCRGMSRGKVIRLHRRKQDN ISGGDSSATESWDEELSPSTVLY TATQHTPTSITLTVRRTKPKKR KKSPEKGRAAPKTKKIKAFREG SRKSLRMKNSPSEAQNLDENTT EGWENRIRLWTDQYEEAFTNQ YSADVQNALEQHLHSSKEFVG KPTILDTINKTELACNNTVIGSQ MQLQLGRVTRVQKHRKILRAA RDLALDTLIIEYRGKVMLRQQF EVNGHFFKK\PYP\FVLFLLQNL NGVEMCVDARTFGNDARFIRR SCTPNAEVRHMIADGMIHLCIY AVSAITKDAEVTIAFDYEYSNC NYKVDCACHKGNRNCPIQKRN S*CYRTATPTTSSKPTHHWSRD *T*KS\RRKELEMEQQNEASEEN NDQQSQEVPEKVTVSSDHEEV DNPEEKPEEEKEEVIDDQENLA HSRRTREDRKVEAIMHAFENLE KRKKRRDQPLEQSNSDVEITTT TSETPVGEETKTEAPESEVSNSV SNVTIPSTPQSVGVNTRRSSQA GDIAAEKLVPKPPPAKPSRPRPK SRISRYRTSSAQRLKRQKQANA QQAELSQAALEEGGSNSLVTPT
21101	51469	A	21228	2	197	CRPPSPRPVRAARPARPQASFSR EPPPRRMAP*SKRRRQSARGPV RPSRVWARIKAKPYSCCCQL
21102	51470	A	21229	4	488	GSYDINRQDTFQKDRQRVGPSG ASQKTEGFLLRLLYSGLIIAHCS LEILGRNDPPASASKVAETTDS GSLSLANT*PPTPR/VTSQTANA TSQAAPALPLGSVPGRRAADPR PLLAWAPAPPGPGTSRNTHPAP DGLDMLVPIGDGVLGGNCFRN QCKSVSTS
21103	51471	A	21230	124	293	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21104	51472	A	21231	239	1393	IYPQISFQKKFVMFFFSEALCTA RAEECDPIGLLNNPRTSRYSRL KPNSSLGGSESRKTQMGPLPPP PKSPDGARPVPGCIKEAGPARG RSRLAPNPGALRRG/VGLGR*S ARI*GLVSKAAAGQGEARRGE AT*ARGALGRTTAGSFNAGWL TLDGARQQPGRQTPTRIPSCVA DNAAGPSRTTTPD/EALRPLRG GPACTAPASFDSRAPYSASSAPS EGRWPSRGFPPIS/PLYSQLPETR SHEWQAASKIQPRKASTSQ*SA RMEAT*QQWAGPPAEP*SLWFP RLARRSVVHWRTPY/ISSSITSLP PVAAGIPEDSGPGSTQSSSRPGN TSSSSRPPPPPPPPPP/QPLPPPPA GLASPRPVRARRPARPQASFSR EPPPRRMAP
21105	51473	A	21232	107	234	
21106	51474	A	21233	224	227	LPQPGPGRRRACLRQASPRQYS RLPGRPPPSG*SW
21107	51475	A	21234	67	607	QRSWAGPGAGPEAGTRPPARG RRRQPGNVDPRRRAPQLRSQM QVAMARATTATGNRLWPGLLI MLGSVCHRGSPCGLSTHVEI\LL LEHQDAYQAGIVFPDCFYPSIC KGGKFHDVSESTHWTPFLNAS VHYIRENYPLPWEKDTEKLVAF LFGITSHMAADVSWHSLGLEQ GFLRTMGAI
21108	51476	A	21235	54	193	
21109	51477	A	21236	1275	1764	STKCQYFSHLLLLFSASESKQLL LYSAFFRYVPVKDLLGIYEKLYI CFISLLQTGL*RYQE*YHIHFIFS FSLP*LYPTYSTKSPFLVEQFQE YFLGGLDDR*NSCL*RSR*MAN SFDCFLSDSVLQGVVFSVVTSL FLFLFNSSKMQKNDFHRNLTTS
21110	51478	A	21237	297	428	QCQRGPGCSRGHGI*I*EHWTA FGLLDLRQWFARGSWASGHGP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21111	51479	A	21238	3247	5958	QRSWAGPGAGPEAGTRPPARG RRRQPGNVDPRRRAPQLRSQM QVAMARATTATGNRLWPGLL MIVMASLCHRGSSCGLSTHIEIG HRALEFLHLHNGHVNYKELLL EHQDAYQAGTVFPDCFYPSLC KGGKFHDVSESTHWTPFLNAS VHYIRENYPLPWEKDTEKLVAF LFGITSHMVADVSWHSLGIEQG FLRTMGAIDFHGSYSEAHSAGD FGGDVLSQFEFNFNYLARRWY VPVKDLLGIYEKLYGREVITEN VIVDCSHIQFLEMYGEMLAVSK LYPSYSTKSPFLVEQFQEYFLG GLDDMAFWSTNIYHLTSFMLE NGTSDCSLPENPLFIACGGQQN HTQGSKMQKNDFHRNLTSSLT ENIDRNINYTERGVFFSVNSWT PDSMSFIYKALERNVRTMFIGG SQLSQKHVSMPLRHHYFLSFPY ARLGW\AMTSADL\NQDG\HGD LRGWGAPGLTAAPAHIPHSGR VYLIYGNDLGLPPVDLDLDKEA HRILEGFQPSGRFGSALAVLDF N\LDGV\PDLAVGAPSVGSEQLT YKGAVYVYFGSKQGGMSSSPN ITISCQDIYCNLGWTLLAADVN GDSEPDLVIGSPFAPGGGKQKG IVAAFYSGPSLSDKEKLNVEAA NWTVRGEEDFSWFGYSLHGVT VDNRTLLLVGSPTWKNASRLG HLLHIRDEKKSLGRVYGYFPPN
21112	51480	A	21239	2	403	VVAEEDTELRDLLVQTLENSGV LNRIKAELRAGVFLALEEQEKV ENKTPLVNESLKKFLNTKD\LQ GLEGRENLARDLGIIEAEGTVG GPLLLEVIRRCQQKEKGPTTGE GALDLSDVHSPPKSPEGKTSAQ
21113	51481	A	21240	3	1699	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21114	51482	A	21241	3	1812	APRLKMGLHPNKPIVSQSRVVN DGQCKLHAAVDSRDPPDGTKR RVSSGGTGLPGPGRGPGLPAGA WLSAEGRGAGGSGDCGPSSGS AEPTQRPPRPSALPGAIPPLHLG LAPFRLASEAVAEQAPPPAPTLS FGAQWSGAPQGSVSSVNPEGA GPARCASGRGFGCVGRVARAR SVPCCGRWPLARLRRLSWRSK MAATAAAV\VAQEDTELRDLL VQTLENSGVLNR\IKAELRAAV FLALEEQEKVENKTPLVNESLK KFLNTKDGRLVASLVAEFLQFF NLDFTLA\VFQPETS/TIF*LLF*L QGLEGRENLARDLGIIEAEGTV GGPLL\LEVIRRCQQKEKGPTTG EGALDLSDVHSPPKSPEGKTSA QTTPSKIPRYKGQGKKKTSGQK AGDKKANDEANQSDTSVSLSE PKSKSSLHLLSHETKIGSFLSNR TLDGKDKAGLCPDEDDMEGDS FFDDPIPKPEKTYGLRKEPRKQ AGSLASLSDAPPLKSGLSSLAG APSLKDSESKRGNTVLKDLKLI SDKIGSLGLGTGEDDDYVDDFN STSHRSEKSEISIGEEIEEDLSVEI DDINTSDKLDDLTQDLTVSQLS DVADYLEDVA
21115	51483	A	21242	419	651	TNIFSRLNPQTKNVFCARQLSS* SVTI*GVLGQAVTRYFSQALSC DWGTLLFSRAFLIMPESPTPLLG RDILAKAGA
21116	51484	A	21243	555	888	RTSSRRTPNPCSRIRKNYFKFH MEPKKSP/S*PRQC*AKRTKLEA SCYLTSNYTTRLQ*PKQHGWG TIRSFSSHEAIFQTITWGKTLDN TRLSRTEVPAAFHSALCPWFIET
21117	51485	A	21244	728	1428	
21118	51486	A	21245	238	505	INVGRHHVILQGLSCPGQLSSRS VTI*G\VLGQAVTIYFSQPLSCD WRTLLFSHVFLIMPESPTPLLGR DILLYVCIGRFPIFRADCRT
21119	51487	A	21246	940	1434	QLAPCTLTEPRVCLTIEGQEVN CFLDTRAAF\VLLSCPRQLSSRS VAIRGVLGQAVT*YFSQPLSCD WGTLRFSHAFLIMPKSPTPLLG RDILAKAGAIIHEKRKAFMRKR EIKKQARSSKVHTSAASSCART APLGESFAEHLIKIADFTPPSSSS PCTTLFFS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21120	51488	B	21247	747	1138	
21121	51489	A	21248	1685	2051	SSSRTEGARGKRQPMPSP/STEP RVCLTIEGQEVNCLLDTGAAFS VLLSCPGQLSSRSVTI*GVLGQP VTRYFPQPLSCDWGTLLFSNAF LIMPESPTPLLGRGILAKAGAIIH HAVLVTAAL
21122	51490	A	21249	2	1014	GGAGPVVLRRRAACSPGPAPR AARPPAMEPGPDGPAASGPAAI REGWFRETCSLWPGQALSLQV EQLLHHRRSRYQDILVFRSKTY GNVLVLDGVIQCTERDEFSYQE MIANLPLCSHPNPRKVLIIGGGE GG\VL\REVVKHPSVESVVQCEI DEDVIQVSKKFLPG\MAIGYSSF EADTYMWGDGF*VSWKQKQ\D AFDVI\IIDSSDPMGPA\ESLFKES YYQLMKTA/LLREDGVL\CCQG \ECQWLH\LDLIKE\MRQFC\QSL FPV/VLAYAYCTIPT/YTPSGQIG FMLCSKNPSTNF\QEPVQAVDN SSKVAKMQLK\Y\YNSERATAA AFVLPE\FARQGLE
21123	51491	A	21250	3	418	FSYEKLLNWQEFAVDLEHHSY RSFLGLTCLKQISTRTEDFIIDTL ELRRDMYILNESLTDPAIVKP\L AEEMLSYARDDTHYLLYIYDK MKLQMRERGNRQTVQLHVVW QRSRDICLKKFIKPI\FTDESYLE LYRKLKK
21124	51492	A	21251	1	1704	
21125	51493	A	21252	1	3104	MFDTHQAARLLNLGRHSLDHL LKLYCNVDSNKQYQLADWRIR PLPEEMLSYARDDTHYLLYIYD KMRLEMWERGNGQPVQLQVV WQRSRDICLKKFIKPIFTDESYL ELYRKQKKHLNTQQLTAFQLL FAWRDKTARREDESYGYVLPN HMMLKIAEELPKEPQGIIACCN PVPPLVRQQINEMHLLIQQARE MPLLKSEVAAGVKKSGPLPSAE \RENVKSQPVQVHL*QRPVLTA GRKLLPACTFYMPACWGL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21126	51494	A	21253	2	2775	QALARRAVQAEKMAPPSTREP RVLSATSATKSDGEMVLPGFPD ADSFVKFALGSVVAVTKASGG LPQFGDEYDFY\RSFPG\FQAFC ETQGDR/LCFQCMSRVMQVPM GC\RSN\IKDRSKV\TELEDKF\D LL\VDAN\DVILERVGILLDEAS GVNKNQQPVLPAGLQVPKTVV \SSWNRKAAEYGKKAKSETFRL LHAKNIIRPQLKFREKIDNSNTP FLPKIFHSNPMVQ\KPLPQALSK ERRERPQDRPE
21127	51495	A	21254	3	2668	QALARRAVQAEKMAPPSTREP RVLSATSATKSDGEMVLPGFPD ADSFVKFALGSVVAVTKASGG LPQFGDEYDFYRSFPGFQAFCE TQGDRLLQCMSRVMQYHGCRS NIKDRSKVTELEDKFDLLVDAN DVILERVGILLDEASGVNKNQQ PVLPAGLQVPKTVVSSWNRKA AEYGKKAKSETFRLLHAKNIIR PQLKFREKIDNSNTPFLPKIFIKP NAQKPLPQALSKERRERPQDRP EDLDVPPALADFIHQQRTQQVE QDMFAHPYQYELNHFTPADAV LQKPQPQLYRPIEETPCHFISSL DELVELNEKLLNCQEFAVDLEH HSYRSFLGLTCLMQISTRTEDFII DTLELRSDMYILNESLTDPAIVK VFHGADSDIEWLQKDFGLYVV NMFDTHQAARLLNLGRHSLDH LLKLYCNVDSNKQYQLADWRI RPLPEEMLSYARDDTHYLLYIY DKMRLEMWERGNGQPVQLQV VWQRSRDICLKKFIKPIFTDESY LELYRKQKKHLNTQQLTAFQL LFAWRDKTARREDESYGYVLP NHMMLKIAEELPKEPQGIIACC NPVPPLVRQQINEMHLLIQQAR EMPLLKSEVAAGVKKSGPLPSA ERLENVLFGPHDCSHAPPDGYP IIPTSGSVPVQKQASLFPDEKED NLLGTTCLIATAVITLFNEPSAE DSKKGPLTVAQKKAQNIMESFE
21128	51496	A	21255	98	286	HARPRHGPRLRCEVGLRCAPG YAGASARPTCECGDTRYCPQDP NQT*SRPVPIIAHRYCLTG
21129	51497	A	21256	1020	1280	
21130	51498	B	21257	153	3804	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21131	51499	A	21258	159	579	PNVRWCPS\CYRNQDDHELQIT HGNKILCGIVWKKIAQVEQMR KFSRLEKQRTHVLSCSDLQAVR RFRGVVSEGSFEMGEKVYKRK DMFQLSLLTEQHGDSTLGSGSS YTQMPAENGSLVHTLVTAAPPF FAEKPHSITAG
21132	51500	A	21259	1	1290	MGASRSQKPGPSRDYSYTAGC DVDQRRRGAQKLSRSDTKRIV MSYGKKALKNDKFEIRAFSSSL EVRYRNQDDHELQIHTGTRFY VELCGFAVTRLRDPPMLRHAA MALLPWRPPDYSASLLPDWLP VPSSKVVITYPGFTSIWAFSNTE T/LCSEYKYYCEECRSKQE/AHK RRKV*KLPMILAP/HLKRFKYK DQLHRFTKLFTRASLRGPRDER LKRVSRQLFSLVVVTSRVFDVL LRILHRLGQYVSSEYYVALMCS EGHGPGAEDVTELLQSHEKTE WMRSCFFWMTKSGVFDGIYLW NAFNQEGEDLYKENCKTLMKE VEDAQINGKTSYAHGSEEYCK MSILPRILLQKISRDDCFKIVLKF CVDHQKTKKCCMITLKSSVVQ LAFTIKISVSEMCAREDFVVVIS FQHSEVPSRQLARCTFKEGYT
21133	51501	A	21260	3	142	
21134	51502	A	21261	1	1368	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21135	51503	A	21262	1	2420	MEEVAEAPQPIDPKPLATQPQSI IITTITTIITITTTTTITITTTTTITTTIT IITTTITITTTTITTTTTITIITTTITITT TITITTIITIITTTITITTIITTTITTT VITIITTTITTIITITTITPSSSSSPSS QADECWGEAEPLMSRQAHVW LRYRTGCREERPDQELTGSWG HGPRSTLVRAKAMAPPPPPLAA STPLLHGEFGSYPARGPRFALTL TSQALHIQRLRPKPEARPRGGL VPLAEVSGCCTLRSRSPSDSAA YFCIYTYPRGRRGARRKATRTF RADGAATYEENRAEAQRWAT ALTCLLRGLPLPGDGEITPDLLP RPPRLLLLVNPFGGRGLAWQW CKNHVLPMISEAGLSFNLIQTER QNHARELVQGLSLSEWDGIVT VSGDGLLHEVLNGLLDRPDWE EAVKMPVGILPCGSGNALAGA VNQHGGFEPALGLDLLLNCSLL LCRGGGHPLDLLSVTLASGSRC FSFLSVAWGFVSDVDIQSERFR ALGSARFTLGTVLGLATLHTYR GRLSYLPATVEPASPTPAHSLPR AKSELTLTPDPAPPMAHSPLHR SVSDLPLPLPQPALASPGSPEPL PILSLNGGGPELAGDWGGAGD APLSPDSTAGFTSWLSQGSSTLT RLRRGPRNSPILWAPTSHP*CPG RGLH\RGPPDHLLPPLGTPLPPD WVTLEGDFVLMLAISPSHLSAD LVAAPHARFDDGLVHLCCVRS
21136	51504	A	21263	573	1025	RKQSHEDEWRSTNKTVGHPSA RLYEPPWWAHTWTPPGGSKAP SDP/PLSHQLSPPAGQPHFASPEP TSKTPDPWPGNVFSSFPLPQSLP ELRHTLYLPMGTKKPPGSSMIF YT*AQYPGTNSSATICRLLSYKS GQVYPNTGQAPPQQRRGR
21137	51505	A	21264	48	327	EELEALRR\QRLAELQAKHGDP GDA\AQQEAKHREAEMRNSILA QVLDQSARAR\VSEQGLIEILKK VSQQTEKTTTVKFNRRKVMDS DEDDDY
21138	51506	A	21265	1	400	
21139	51507	A	21266	786	905	VSEQGLIEILKK*CQLTEKTSTV KFNRRKVMDSDEDDDY

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21140	51508	A	21267	907	1327	PRLLQRSTPSPWRTEELEALRR\ QRLADAAGQNTGDPGDAA\QQ EAKAPGQAEMRNSILAQVPGSS PAPAPRLSNLSHLVKP*KNLKP V\ENYPYTRLARYWTT*VMTGI RNQGFN*KSLKKVKAQ\QTEKT TTVKFNQKKK
21141	51509	B	21268	1	828	
21142	51510	A	21269	317	2390	KWPKMNPQQQRMAAIGTDKE LSDLLDFSAMFSPPVNSGKTRP TTLGSSQFSGSGIDERG\GTTSW GTSGQPSP\SYDSSRGFTDSPHY SDHLNDSRLGAHEGLSPTPFMN SNLMGKTSERGSFSLYSRDTGL PGCQSSLLRQDLGLGSPAQLSS SGKPGTAYYSFSATSSRRRPLH DSAALDPLQAKKVRKVPPGLPS SVYAPSPNSDDFNRESPSYPSPK PPTSMFASTFFMQDGTHNSSDL WSSSNGMSQPGFGGILGTSTSH MSQ\SSSYGNLHSHDRLSYPPHS VSPT\DINTSLPPMSSFHRGSTSS SPYVAASHT\PPINGSDSILGTK GNAAG\SSQTGDALGKALASIY SPDHTSSSFPSNPSTPVGSPSPLT GTSQWPRPGGQAPSSPSYENSL HSLQSRMEDRLDRLDDAIHVLR NHAVGPSTSLPAGHSDIHSLLG PSHNAPIGSLNSNYGGSSLVASS RSASMVGTHR\EDSVSLNG\NH SVLSSTVTTSSTDLNHKTQENY *RWPCKSQSGT\VVPQEIKT\EN KEKDENLHEPPSSDDMKSDD* SSQKDIKVSSRGRTSSTNEDEDL NPEQKIEREKERRMANNARERL RVRDINEAFKELGRMCQLHLKS EKPQTKLLILHQAVAVIL\SLEQ QVRERNLNPKAACLKRREEK VSAVSAEPPTTLPGTHPGLSETT
21143	51511	A	21270	2	153	QNASSPSKGSQLLTSKGTKLDG E*V**INRSRLQKVANNKLLWR KLKGQF

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21144	51512	A	21271	1	1230	MRKTQCKNAESSKNQNASFPP KDHNSLTAREQNWIENEFGELT EVGFRRLNQEEVEFLNRPITGSE IEAIINSLATKK\GPEGFIAEFY*R KTQCKNAESSKNQNASFPPKD HNSLTAREQNWIENEFGELTEV GFRRLNQEEVEFLNRPITGSEIE AIINSLATKKRTRGIHSRILLEVI TSFYVERGGNAMSFMGKGVTK STILCLLHLSHEMMAQAGSLE WMSLWFLPLGSHSEEHIPTQQG LAWLIPLWVDRDPEVRFTSLGL GSALTTLETGCVALANSCQNIS GGLWGTVVNILLDQSECSMVR RESQHHVDVAKVYHLHPPEW WPKLYLGPLDHSRELRSSVLEC MEQRLEVTLGTTPYFSVPISKFI QAVTTKCLRLGASRFSVCLAGL SAAPEQKIHPPPPTQQFQQLPHD SVGFLQFSLHPKGNFGSGISSPD RSGDASHYSYPSLWQIRGTSRV KKQTWGSGNLKKWGIHKVQP QRLMMQNDTDEESI
21145	51513	A	21272	1	987	
21146	51514	A	21273	180	466	ARGSERAAASFSASMYEGKKT KNMFLTRALEKILADKEVKKA HHSQLRKACR\VALEGNKAETE KQSPPHGEAKAGISTLPPVKSK TNFIEADKYF
21147	51515	A	21274	1	1224	
21148	51516	A	21275	251	5986	SCRCPPRLQSPTSTPSPFSLLFLP LLLLPSSRWEPRVGRAAASFSA SMYEGKKTKNMFLTRALEKIL ADKEVKKAHHSQLRKS/CGRV ALEEIKAETEKQSPPHG\EAKAG SSTLPPVKSKTNFIEADKYFLPF EL\ACQSKCP\RIV\STSLDCLQK L\IAYGAL*LGNAPDSTTPGKKL IDRIIETICGCFQGPQTDEGVQL QIIKALLTAVTSQHIEIHEGTVL QAVRTCYNIYLASKNLINQTTA KATLTQ
21149	51517	A	21276	46	214	KLRLTTTSVYAIPNRRRYDGFK LVQSCIFI*NFRS*DLRPPQYMPF LIEGGMTVSNSCRAAFSFTSLC RHFRSEAWLQNTNTGGFGSTF
21150	51518	A	21277	306	616	
21151	51519	B	21278	47	927	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21152	51520	A	21279	660	890	GGKITASGSPVPRPSGA*ALPSG RCSTPRTSSCPRQLPEPPGL\PSP PSAPANTTPDDSHAAP*GTRAH THRPPPHT/PTAPSRPPTSPPVAT RTAPKAPQ/HHP/PTSCPTQRPT DSPSVHEPSQPLATQHSTQPI*P VIVTQ
21153	51521	A	21280	3	213	
21154	51522	A	21281	349	2616	TTAMAHRKLESVGSGMLDHRV RPGPVPHSQEPESEDMELPLEG YVPEGLELAALRPESPAPEEQE CHNHSPDGDSSSDYVNNTSEEE DYDEGLPEEEEGITYYIRYCPED DSYLEGMDCNGEEYLAHSAHP VDTDECQEAVEEWTDSAGPHP HGHEAEGSQDYPDRQLPIPEDE PSVLEAHDQEEDGHYCASKEG YQDYYPEEANGNTGASPYRLR RGDGDLEDQEEDIDQIVAEIKM SLSMTSITSASEASPEHGPEPGP EDSVEACPPIKASCSPSRHEARP KSLNLLPEAKHPGDPQRGFKPK TRTPEERLKWPHEQVCNGLEQP RKQQRSDLNGPVDNNNIPKTK KVASFPSLVAVPGPCEPKNLID GIIFAANYLGST\QLLSERNPSK NIRMMQAQEAVSRVKRMQKA AKIKKKANSEGDAQTLTEVDLF ISTQRIKVLNADTQETMMDHAL RTISYIADIGNIVVLMARRRMPR SASQDCIETTPGAQEGKKQYK MICHVFESEDAQLIAQSIGQAFS VAYQEFLRANGINPEDLSQKEY SDIINTQEMYNDDLIHF\SNSEN CKELQLEKHKGEILGVVVVESG WGSILPTVILANMMNGGPAAR SG\KLSIGDQIMSINGTSLVGLPL ATCQGIIKGLK*PDHR*SFNIV\S CPPV/TPRFLYSKRPDLKYQLGF SVQNGIICSLMRGGIAERGGVR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21155	51523	A	21282	20	771	TTPNKQHMMQTRAGSAWYLR SRGCSQGAPQKASSGSGGSSW NRSVATVPGIVLGWRRPELLSE RGCAEARGAGVAGRQRLQLTG VQGKSVVRGRGLLGRREWCRR GGGAAPRPTPAGTPVPRRPGTR AGPEEGEGAGAGARAAPEPRP HALSPPAAFGADGQLRPLLLTS LRAHHPGRGGLLLTSPGTHQPR RGRQGTPPPASPSPA/PEEGALP GVLPL*PPPSPPSP/SSESPRPHPG GGALAVTRRTAAA
21156	51524	A	21283	1615	1985	LGSTRQAAPGQLRGHQAPAPN SDATAGQGRCRRSAD*GWGSR EQI*ALPLPSGPAPLLPPLLPPLL PVPPSPPPPSPPSPPSPLPPP\GPP* PPLTFSVVTPGGLWCPPHRKSL NPTSKGVNEY
21157	51525	A	21284	3	501	
21158	51526	A	21285	1	2646	
21159	51527	A	21286	31	319	VIQDLHVPPREESAEQVDDPPE PVY\RT*RGSPGPLHRAPLQPPF PARCGRRTRTRAPGAPTTTTQT RELPPGSRPLRLPRVPPAQPPPL PRWTAT
21160	51528	A	21287	3	147	
21161	51529	A	21288	20	600	PVTPRRTILPWALSVSPALPLP* PHPPAGLVMSARTSRCSTPTTS LRSSG*GWRTPTGSHTSTIQRTP LFDGSCPRSLSLPLEASINPARM VTPQPRPALQRRRSQQSWMRL GAGRKSLLPQLL*GPRPWTRQG CSIAPRRQTRESGSGRSTGVPPG LCWRVAS*HSSRTQRPRLQAA* GSLPSFPPLSTQWS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21162	51530	A	21289	383	1800	TCSTQTSLRNPPRRPRAASLPQT CSRSPRPSRAHSLTGRPPRFQSQ MPSRSPCC*IC*NIRIDLCGS\TH SDGRFELVFSGKKLALRASSQD EAEDWLDRVREALQKVRPQQE DEWVNVQYPDQPEEPPEAPQG CLSPSDLLSEPAALQGTQFDWS SAQVPEPDAIKESLLYLYMDRT WMPYIFSLSLEALKCFRIKNNE KMLSDSHGVETIRDILPDTSLG GPSFFKIITAKAVLKLQAGNAE EAALWRDLVRKVLASYLETAE EAVTLGGSLDENCQEEKNNTK HTTARNAFEENDFMENTNMPE GTISENTNYNHPPEADSAGTAF NLRPTVKQTETKWEYNNVGTD LSPEPKSFNYPLLSSPGDQFEIQ LTQQLQSLIPNNNVRKLIAHVIR TLKMDCSGTHVQVTCAKLISRT GHLMKLLSGQQEVKASKIEWD TDQWKIENYINESTEAQSEQKE KSLEAASGTQDGVHVQEPRPQ APSPLDLQQPVESTSSQQPSSTV SETAREVGQGNGLQKAQAHDG AGLKLVVSSPTSPQQVCKLWW SAGLHTPPPVTSLGTVGLQGPQ QRFPKFPDFFHPLEISCGKVA
21163	51531	A	21290	2	667	
21164	51532	A	21291	84	377	RMGKHCFENLLFRDGKAQRAC MGYTVCHSHIVGSGQKCWPA WPQVNLQPSRHQQVCCSLPRC AKCKTVFHQSCQAV\VKKGCPR CAR*RKYQQQNVFA
21165	51533	A	21292	2	1168	FVLPVVSGRETASSARRLRGCR SREPPSPRSSLRLVSCDSLREQL REWRCFQWWRMDWTPRLPSR HIISELEHLTFVNMDVGRCRAW LRLALNNGLMECYLKLLLQ\EQ ARLREYYQPTALLRDAEEGEFL LSFLQGLMSLSFELSYKSAILNE WTLTPLALSGLCPLSELDPLSTS GAELQRKESLDSISHSSGSEDIE VHHSGHKIRRNQKPTASSLSLD TASSSQLSCSLNSDSCLLQENGS KSPDHCEEPMSYDSDLGTANA EDSDQSLQEVLLEFSKAQAASG TQDGVHVQEPHPQAPSPLDLQ QPVESTSGQQPSSTVSETAREV GQGNGLQKAQAHDGAGLKLV VSSPTSPNISSMIQSTRPVHFCIV STKHCTWEKVGMDE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21166	51534	A	21293	263	813	
21167	51535	A	21294	130	1094	NQPHRTKGCPNSSTECKNGSLT CDFMQVPILEMGKLRPEGERRV QDRDSNPSLSPSAGLFQARWS* PPRPSFLLPAGKRRGCDGGGRG GGRVRAGGAPLRVHRQGRAPP QSTEHWWHVRRKPGGRPFYLP AQYVRELPALGNPAADAPPGPP IGTRSP*AARLRLPVRERGCGSG PQRPPSGAPRRGQLPVRPCAAR RREP/RAAAWRPACPPACTCGP\ GARAARAVPGRPDARRRLASR RQPRKQRQLQGLQRSGLLGVP AAPVAQRLRERLRGHPGGTRP AAVGDREAGTTPGAEAGRLAE DSARREPGLEENHSAQRRA
21168	51536	A	21295	2	3676	
21169	51537	A	21296	432	3453	DLAGEVLLCGGAADYGTLGFS SPAVQEANRGALCSSIERGHIIS ELEHLTFVNTDVGRCRAWLRL ALNDGLMECYLKLLLQEQARL HEYYQPTALLRDAEEGEFLLSF LQGLTSLSFELSYKSAILNEWTL TPLALSGLCPLSELDPLSTSGAE LQRKESLDSISHSSGSEDIEVHH SGHKIRRNQKLTASSLSLDTASS SQLSCSLNSDSCLLQENGSKSP DHCEEPMSCDSDLGTANAEDS DRSLQEVLLEFS
21170	51538	A	21297	64	2996	LCPPAQPAASQPQVELPAGWPQ PHALPLPHDHRAQHLLGCAHP GRAKPELQQHHDCACAAQIPHI PVRQPYQHPDPPLCQPRRPACP ALPIHGRQLLLQEPLQAGTGGG PGCPPWPGQPHPPVTQVQQPHC GAPQPAFQPGVSAVVLRGRIVK LAPEDLANLTALRVLDVGGNC RRCDHAPNPCMECPRHFPQLHP DTFSHLSRLEGLVLKDSSLSWL NASWFRGLGNLRVLDLSENFL YKCITKTKAFQGLTQL
21171	51539	A	21298	1	320	PVRTPPIPAFSPLKTLRIMSLHQF LLEPNCGRPQLCRGTMARKPAP RKH*KHISRQCRVVLFEYKIGES VGFFKAVIFLFVFLRFHSILDQS FSLSSLLWKIVTLT
21172	51540	A	21299	1	443	
21173	51541	A	21300	1	1059	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21174	51542	A	21301	116	1559	PRTARPSCAHARTVRAVATRRR RVHFRDLSAAPSGLSVLRPRPT EPVRVDCPESANPPVRARPDSP DPRMFELLAASDARINGPFCAP RVLLAPLLGAFVTVSKIVSKIAL SPK*SRRSHLLRRNGSQW\VKV H\ELKEHNG\HITGID\WAPKSD RICH/CLGADRNCLMVWS\QK\D GVWKPNPG*FLRNLIGGGNFL* KWVPPRRTKFGCGGSGARLISV CYFESENDWWVSKHIKKPIRST VLSLDWHPNNVLLAAGSCDFK CRVFSAYIKEVDEKPASTPWGS KMPFGQ\LMSEFGG\SGTG\GW VHGVSFS\ASG\DRLGWGSATD ST\VSVA*CLQKVVQVSTLKT\E FLAAP*VVSFVSREPASGLPAH DC\CPMLFNYG*PRAALTFRLP KLDIPK\QSIQRNMSAHGNAFG NM\DKRATTED\RNTAL\ETLH\ QNSITQVLYLLRWDKQD\CRKF CT\TGI\DGEPWTIWDFQDPRSL PSQGLRIM

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21175	51543	A	21302	1	2223	MKHYTRVQSSISPPAERQETHA WASPAVTSLESAACHELQEAD LSESLSYPRIVSSSSLQQYVAQG GSFPCFGMPWNFISGGAESTNA VISFANATTAVPMAVLSRRESS LANNPGVVNYSALPENENVGP EMPERPANSSKNSTETANYPTL MGNYNGQNTASLSVFIPPYFAE KIILTEMPGTTETNVENNSQTV YYPALSGNTSAPYPASSYLPITS NFVLERVAEMPETAGTNVKNN TQTVNYPPSSGRGRSQGNASLS LSIPPKFGIERHLGCFLVLAIRSK AAMN\IIYHIGFV*TQAFISLRY/ MPKSAVAGSYGNALQNVLHIE MLFKTESGPQMSYGTMSYSTE MKNNCDQDDASASACLTPDFA LLPLNILVKVDTNTENSVNTMN RSTLLDSDSGQDSSSSSVCIPPK YGYLGDPKRNVRVLKIHLLAV QNMAKPKQAACYLVRILFSKEI LISSSVDIHLKDSQSLDPNKMA ALREYLATTFPTCDLHEHGKD WQDCISGINSMIYCLCSEGKSTP KTVRKNKKRTNRVASASADRN DQRGRDGGEGCSWMFQPMNN SKMREKRNLQPNSNAIPEGMRE PSTDNPEEPGEAWSYFGRPWRN IRMPCSVLTLAKTKSCASLSAR YLIQKLFTKDVLVQSNVYGNL KHGLCALDPNKISALREFLQEN YPICDLSENGRDWKSCVTSINS
21176	51544	A	21303	1	297	
21177	51545	A	21304	1	162	
21178	51546	A	21305	11	212	KGKNCVAIAADRRFGIQAQMV TTDFQKIFP/MGAQRLKFRLNL YELKEGRQIKPYTLMSMVANL LYEK
21179	51547	A	21306	37	554	SSIKFGRSNPDYWIALPSRNLDP AIMSIMSYNGGAVMAMKGKN CVAIAADRRFGIQAQMVTRDF* KFFPMG*PACTPGMAGFAIDVQ TVAQRLKFRLNLYELKEGRQIK PYTLMSMVANLLYEK/RDPDHL FETISQAMLNAVDRDAVSGMG VIVHIIEKDKITTRTLKARMD

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21180	51548	A	21307	51	741	YTAIMSIMSYNGGAVMAM\KG KNCVAIAADRRFGIQ\ARLLTTN FQKIFPMGDRLYIGLGGASPLD VQTS/VAQRLKFRAEPVMS*RE GRQI\KPYTLH*AMGGQPSLL*E KVFGPLTYTE\PVHLPGLGPERP FKALSICFSKTLIRVGPMGDLN DFCGSSGNLAPNKMYG\MCESL WGGPTWDPDHLF*KPFSQGHG *MLWDRDGS/VSGMGSSLFHIIE KDK\IPPRTLKARMD
21181	51549	B	21308	150	404	
21182	51550	A	21309	199	395	
21183	51551	A	21310	100	182	SFLFWIKR*SFPDALYFSSKSGA CSCN
21184	51552	A	21311	203	289	KCLALDIALATRRSAI*FPSVKG PGRGV
21185	51553	B	21312	166	411	
21186	51554	A	21313	232	317	KCPALDIAVATRRSAI*FPAVKG PGRGV
21187	51555	A	21314	129	278	FYSSVSGVSSKDDRRFGCSGYS AAVISFRQC*SQLPGCSATYQR ESTFS
21188	51556	A	21315	789	962	
21189	51557	A	21316	477	599	
21190	51558	A	21317	86	577	ATEPLAPSERREVSIPLLVPAPL PPPPRPPVPSRTRTRPWRRP*AC FPMTLAASCGPTRSPWPSQQPIP QPAPVG/PGNIKTLGDAYEFAV DVRDFSPEDIIVTTSNNHIEVRA EKLAADGTVMNTFAHKCQLPE DVDPTAV\TSALRKDGSLTIRAR RDPHTEHV
21191	51559	B	21318	312	466	
21192	51560	A	21319	886	1338	GFWQVIRALRGGEVHREGTSA PGRHRRRCGCRSAWNRCCTAC SHVWPPRQMWPQG/PDVAMKT GNIKTLGDAYEFAVDVRDFSPE DIIVTTSNNHIEVRA/REA/ERPD GTVMNTFAHKCQLPEDVDPTS VTSALREDGSLTIRAWRHPHTE HVQ
21193	51561	A	21320	3	605	KKLTPVVRSRVERDPRVRRGLR PHPVLSSLRPPGQGPAPSVDEPQ NLFHLPSGEKIPFLFLLLLLFTPP PRPPVLSRPRTRPWRRP*ACFP MTLAAICGPTRSPWPSQPAPV/V AGNIKTL*DAYEFVVDVRDFSP EDIIVTTSNNHIEVRPEKLAADG TVMNTFAQQCQLPEDVDPTSV TSALREDGSLTIRARGHPHTEH

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21194	51562	A	21321	3	450	SSAAEVQEPRGAPGSPSIPSASR PGPAPRPASLPPSQMQAAALPE EIRWLLEDAEEFLAEGLRNENL SAVARDHRDHILRGFQQIKA\G GDIGQDSSDDNHSGTLGLSLTY DAPFLSDYQDEGMEDIVKGAQ ELDNVIKQGYLEKKS*DH
21195	51563	A	21322	1	399	IGQDSSDDNHSGTLGLSLTSDA PFLSDYQD/EG*VHQISDHWEK LRTWC*VYCDKGMEDIVKGAQ ELDNVIKQGYLEKKSKDHSFFG SEWQKRWCVVSRGLFYYYANE KSKQPKGTFLIKGYSVRMAPHL RRDS
21196	51564	A	21323	3	1189	RLPARPPPDQGPRPVPPLSRPAK CRLAVLPEEIRWLLEDAEEFLA EGLRNENLSAVARDHRDHILRG FQQIKARYYWDFQPQGGDIGQ DSSDDNHSGTLGLSLTSDAPFL SDYHDEGMEDIV*GAQELDNVI KQGYLEKKSKDHSFFGSEWQK RWCVVSRGLFYYYANEKSKQP KGTFLIKGYGVRMAPHLRRDS KKESCFELTSQDRRSYEFTATSP AEARDWVDQISFLLKDLSSLTIP YEEDEEEEKEETYDDIDGFDS PSCGSQCRPTILPGSVGIKEPTEE KEEEDIYEVLPDEEHDLEEDES GTRRKGVDYASYYQG\LWDC\ YGDQPDDLSL\QRGDLILFLSKE YNMYGWWVGELNSLVG\IVPK EYLHHLPLKWKERWKPREIYFF
21197	51565	A	21324	47	225	NSHHVRGRPRCADSSSPSGDRG QPEAQPAPDSSAPEHAQEPGRA AVKRPDL*SHMTRRP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21198	51566	A	21325	66	725	AILIILLSSEGLWSSDQHRLVGV QDSPPQGSLGCYFSAMATSEQS VCQARASVMVYDDTSKKWVPI KPG\QQGFSRINIYHNTVSNTFR VVGVKLQDQQ\VVINYSIVKGL KYNQATPTFHQWRDARQVYG\ LNFASKEEATTFSNAMLFALNI MNSQEGGPSSQRQVQNGPSPD EMDIQRRQVMEQHQQQRQEFL ERRTSATGPILPPGHPSSAASAP VSCSGPPPPPPPPVPPPPTGA\TP PPPPPL\PAGGAQGSSHDESFHV QDWPLAISWGPSLRRVPNGPED ASGGSSPSGTSKSDANRASSGG GGGGLMEEMNKLLAKRRKAA SQSDKPAEKKEDESQMEDPSTS PSPGTRAASQPPNSSK\AGRKP WERSNSRGYFCVLDSVQNPAL WPKSPES*EPPSVSSL/ISRMKPA GS\VSDMA\LDAFDLD\RMKQEI LEEVVRELHKGERKEIID\AIRQ EA*SGISRKKNLGHRAHPPTRTS FICSQRPRLM
21199	51567	A	21326	301	390	
21200	51568	A	21327	72	415	
21201	51569	A	21328	395	697	RVMSPVHVNTICSPHPHSDGDV IVPIVLSNERYHWP\VLGWVGG VDCDEFFRVVLGEARLH\LDGV AHQH*TKEGTISNLFQ\ATSVSH LVEVVPQKLSWVI
21202	51570	A	21329	36	399	VEILTSKRAGDWFKEELRLLGG LDHIVDKVKECVDHLSRDEDEE KLVASLWGAQRCLRVLQSVTV HNPENQSYLIAYKDSQLIVSSA KALQHCEELI*QYNRAVDTLCL ADCKPLPHPTVL
21203	51571	A	21330	1	177	
21204	51572	C	21331	198	350	
21205	51573	A	21332	113	228	
21206	51574	A	21333	1	466	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21207	51575	A	21334	1	4133	ASGCWRKEVGAGSANGVEMV QGPVQTPALTIHRRKRRRRRR RPSGGTQQALLPAPAVAASES* ARARPAALEAGREVAGPP\SCPP NRASYLPKAESLASLGSHLPAL LSRARVPRPPAGRKERE\RRKRP \VAKAPARL\RGEYETG\VKMTS RFAKTYSRKGGNGSSKFDEVFS NKRTTLSTKWGETTFMAKLGQ KRPNFKPDIQEIPKKPKVEEEST GDPFGFDSDDESLPVSSKNLAQ VKCSSYSESSEA
21208	51576	A	21335	3	221	
21209	51577	A	21336	1	580	
21210	51578	A	21337	2	1095	ARGNRPPPPPRTERGVLESRTRS RHRAPRLPPAMPAPRAPRALAA AA\PASGKAKLTHPGKAILAGG LRGG\IQICMTFPTEYVKTQLQL \DERSHPPRYRGIGDFVRQTVRS HGV\LGLYRGLSSLLYGSIPKAA V\RFGMFE\FLSNHMRDA\QGRL DSTRGLLC\SLGAGRGPRP*VV VCPMETIKVKFIHDQTSPNPKY RGFFHGVREIVREQGL\KGTYQ GLTAT\VLKQGSNQA\IRF\FVM TSLRQW\YPRGTTPNKAHEPF*I TWGSFGA\IASASQVSFGNTPLD VI\KTRMPGPWRPHK\YR\NTWD \CGL\QILKKGGGSRAF\YKGTV PPLGPGLAWDVAI\VFV\IYDEV G*SCFNKVWKNGIKA
21211	51579	A	21338	3	375	TAGDSGAEDGPASRVSQMPTLP PPMPWNLPAGVDCTTSGVLAL TALFFKMEEANLASRAKAQELI QATNQILSHRKPPSSLGMTPAP VPTSLGLPPGPSSYLLSGSPPLG GC\GSTPPTPPGLAA
21212	51580	A	21339	51	3789	GRGHPHGGGELLPASPRGSPEG DQPGQGDPEEKEGRVVPRGGA PDVPSAHALVPEPQTVLGLHQR VTAQPGRHGAH*LHGDRLHSG RPQRPTHTGWAPCLPYPTLGSG *RRHHGNPAGTPRSLLFPF\PEK ELEAPPPAPRFDIYDPFHPTDEA YSPPPAPEQKYDPFEPTGSNPSS SAGTPSPEEEEEEEEEEEEEED EEEEEGLSQSISRISETLAGIYDD NSLSQDFPGDESPRPDAQPTQP TPAPGTPPQ
21213	51581	A	21340	286	393	
21214	51582	A	21341	64	610	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21215	51583	A	21342	1	4433	MWAQLLLGMLALSPAIAEELP NYLVTLPARLNFPSVQKVCLDL SPGYSDVKFTVTLETKDKTQKL LEYSGLKKRHLHCISFLVPPPAG GTEEVATIRVSGVGNNISFEEK KKVLIQRQGNGTFVQTDKPLYT PGQQVYFRIVTMDSNFVPVND KYSMVELQDPNSNRIAQWLEV VPEQGIVDLSFQLAPEAMLGTY TVAVAEGKTFGTFSVEEYVLSP FLLLLSSVLPKFKVEVVEPKELS TVQESFLVKGGL*\
21216	51584	A	21343	3	522	ELRTWIEGLTGLSVGPDFQKGL KDGTILCTLMNKLQPGSVPKIN RSMQNWHQLENLSNFIKAMVS YGMNPVDLFEANDLFESGNMT QVQVSLLALAGKMGTNKCASQ SGMTAYGTRRHLYDPKNHILPP MDHSTI\SLQMGTNKCASQVG MTAPGTRRHIYDTKLGTD\KCD
21217	51585	A	21344	1	1230	MHQEDLRAWYLDLGLPSHQNE TTDVSVVYERFSLTDATYPKQA KQWDFPFLRVSTAQPTAWKCQ RAPSPYTHQDTALIPSPTARWL SPEKEPKQGEVGEKSLLPDPTLP LTDPRLTGSTEQKKDLAAGPVG SALRRRPPAVSSTQFNKGPSYR LLADVQNRLLPKYDSQKEAEL RSWIKGFTGLSIRPDFQKGLKD GIILCTLVNKLQPGSVPKIN\ASV *NWH*LENLSNFLKAMVSYGM /NPVDLFEANDLFESGNNMQVR VSLLALAGKAKTKGLRSGVDIR DKYSKKQNFDDTTMKASQCVI RLQITNKCASQSGMTAYGTRR HLYDPKNRILPPMDNSTISLQM GTNKYASQVGMTAPGTQRHIY DTNLGIDKCENSSMSLKMGYT QVANHSGQVFGLGRQIYEPKY
21218	51586	A	21345	2	389	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21219	51587	A	21346	1	1113	MHQEDLRAWYLDLGLPSHQN AQPTAWKCQRAPSPYTHQDMA LIPSPTARWLSPEKEPKQGEVG EKSLLPDPTLPLTDPRLTGSTEQ AHAEGLAALMSALRVSHLQGR GGVVTLVDSQLGVIAVSSTQFN KGPSYRLLADVQNRLLPKYDS QKEAELRSWIKGFTGLSIRPDFQ KGLKDGIILCTLVNKLQPGSVP KIN\ASV*NWH*LENLSNFLKA MVSYGM/NPVDLFEANNLFESG NNMQVRVSLLALAGKAKTKGL RSGVDIRDKYSEKQNFDDTTM KASQCVIRLQITNKCASQSGMT AYGTRRHLYDPKNRILPPMDNS TISLQMGTNKCASQVGMTAPG TQRHIYDTKLGIDKCENSSMSL
21220	51588	A	21347	353	1260	SCWCLKLALAVSST/QFNKGPS YRLLADVQNRLLFKYDSQKEA ELRSWIKGFTGLSIRPDFQKGLK DGIILCTLVNKLQPGSVPKIN\AS V*NWHQLENLSNILKAMVSYG M/NPVDLFEANDLFESGNNMQ VRVSLLALAGKAKTKGLQSGV DIRDKYSEKQNFNDTTMKARL CVIRLQITNKCASQSGMTAYVT RRHLYDPKNRILPPMDNSTISLR MGTNKCASQVGMTAPGNQWH IYDTKLGIDKCENSSMSLKMGY TQVANHSRQVFGLGRQIYEPKY QPGGPVAHGAPSAGNCPGPGE
21221	51589	A	21348	3	530	
21222	51590	A	21349	1	853	MPESWLAAFPPYGDIKKVVGL QLKEGLHQNLTMQDSIQIFDFQ LPGLLRPSSVLWTLKPYHTAGL ASDRDSYKGILACMPCMFGSRR SPLRDIKSHQADLELEVKNSLD TIHRLESELKKQSKIQSQMKVE KAHLEEEIAELKKSQAQDKAKL LEMQESIKDLSAIRADLANKLA EEERAKKTSA*GAFGP/LIAQAN SRDEGTATIITQLELERDVHQRE LKDLTSSLQSVKTKHEQNIQEL MKHFKKEKSEAENHIRTLKVPL LNYPDDTEGIFLVAHEVNKA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21223	51591	A	21350	1	652	NTSLINTKKKLETDISQIQGEME DIIQEARNAEEKAKKAITDAAM MAEELKKEQDTSAHLERMKKN LEQTVKDLQHRLDEAEQLALK GGKKQIQKLEARVRELEGEVES EQKRNVEAVKGLRKHERKVKE LTYQTEEDRKNILRL\QDL\VDK LQAKVKSYKRQAEEAEEQSNV NLSKFRRIQHELEEADF\RADIA ESQVNKLRVKSREVHTKIISEE
21224	51592	A	21351	21	5868	PAAMSSDSEMAIFGEAAPFLRK SERERIEAQNKPFDAKTSVFVV DPKESFVKATVQSREGGKVTA KTEAGATVTVKDDQVFPMNPP KYDKIEDMAMMTHLHEPAVLY NLKERYAAWMIYTYSGLFCVT VNPYKWLPVYNAEVVTAYRG KKRQEAPPHIFSISDNAYQFML TDRENQSILITGESGAGKTVNT KRVIQYFATIAVTGEKKKEEPA SGKMQGTLEDQIISANPLLEAF GNAKTVRNDNSSRFGKFIR
21225	51593	A	21352	54	399	
21226	51594	A	21353	441	1585	VPPMGGGPPFVGPVGFGPGDRS HLDSPEAREAMFLRRAAVAPQ RAPILRPAFVPHVLQRADSALSS AAAGPRPMALRPPHQALVGPP LPGPPGPPMMLPPMARAPGPPL GSMAALRPPLEEPAAPRELGLG LGLGLKEKEEAVVAAAAGLEE ASAAVAVGAGGAPAGLAVIGP\ SLPLALAMPLPEPEPLPLPLEVV RGLLPP\LRITELLSLRPRPRPPR\ PEPPPGLMALEVPEPLGEDKKK GKPGEIEHRCIATA/AQGASWE DPPTCWKWDAE*LSRVFCGDL G\NEVND*HLGHAASARFPIPSL KAKVIR*QSAQARPKGYG\FVS FKDP\SDYVRP\MREMNGKYVV LAPPIKLRKSMWKDRNLDVFR KKQKEKKKLGLR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21227	51595	A	21354	1	1122	MPGGKIGFLIEKGATEQSSTGN DFDELREEGGRRSNYSELQEDI QTKGKEVENFEKNLEECVTTIS NTEKCVKELMELKTKARELRE ECRSFRSQCNQLEERVPAMKDE MNEMKREGKFREKRIKRNEQS LQEIWDYVKRPNLPLIGVPESD RENGTKLENTLRDIIQENFPSLT RRGQPFRIMENTENAPKDNLLE KEQLPRHNNCLELTQEEPAWD LQFDLLDLNDISSALKHHEEKN LISLLPQRGADYLSFRSHFQKNF VCVENCSLQERTVTGTVKVKN VSFEKKVQIRITFDSWKNYTDV DCVYMKNVYGGTDSDTFSFAI GLPPVIPTEQKIEFCISYHANG\Q IF\WDNK*WGRKYKNCVIVQW
21228	51596	A	21355	71	1124	GPPPLCLMSCTRMIQVLDPRPL TSSVMPVDVAMRLCLAHSPPV KSFLGPYDEFQRRHFVNKLKPL KSCLNIKHKAKSQNDWKCSHN QAKKRVV\FADSKGLSLTAIHV FSDLPEQPAWDLQFDLLDLNDI SS\ALKHH\EEKNLILDFP\QPST DYL\SFRSHFQK\NFVCL\ENCSL Q\ERTVTGTV\KVKNVEF*GRKF QIRYHFSDSWEKLTLDVDCVY MENVY/GVGTGSDTFSFAIDLPP VIPTEQKIEFCISYHANGQVFW DNNDGQ\NYWIVHVQWKPDG VQTQMAPQ\DCAFHQTSPKTEL ESTIFGSPRLASGLFPEWQSWG RMENLRLLCDELSNNVTGLDLS YSPMQS
21229	51597	C	21356	204	273	
21230	51598	B	21357	1	1062	
21231	51599	A	21358	1	397	QRPI*PTKPIGQRVSKGHQP\TR H\DFTQF\LAAHETISRLVGFSA GQV\QYLDLIKK\DPSKLFNEER LIDKTKVTYLKWLPESESLFLA SHASGHLYLYNVSHPCASAPPQ YSLLKQGEGFSVYAAKYNDLF

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21232	51600	A	21359	71	1736	FRTSLKDVWHTPLTPFLPPLKSI DLNKPIDKRIYKGTQPTCHDFN QFTAATETISLLFGSFSPRRTWA WCGPAV*AGPCPTAFLGTLRLI DKTKVTYLKWLPESESLFLASH ASGHLYLYNVSHPCASAPPQYS LLKQ\AWGFSFYAAKSKAPRNP LAKWAVGEGPLNEFAFSPDGR HLACVSQDGCLRVFHFDSMLL RGLMKSYFGGLLCVCWSPDGR YVVTGGEDDLVTVWSFTEGRV VARGHGHKSWVNAVAFDSLY TTRAEEAATAAGADGERSGEE EEEEPEAAGTGSAGGAPLSPLP KAGSITYRFGSAGQDTQFCLW DLTEDVLYPHPPLARTRTLPGT PGTTPPAASSSRGGEPGPGPLPR SLSRSNSLPHPAGGGKAGGPGV AAEPGTPFSIGRFATLTLQERRD RGAEKEHKRYHSLGNISRGGSG GSGSGGEKPSGPVPRSRLDPAK VLGTALCPRIHEVPLLEPLVCK KIAQERLTVLLFLEDCIITACQE GLICTWPRPGKAFTDEETEAQT GEGSWPRSPSKSVVEGISSQPG
21233	51601	A	21360	2	467	LMQ/NWDAAMEDLTRLKETID NNSVSSPLQSLQQRTWLIHWSL FVFFNHPKGRDNIIDLFLYQPH MLADKLNMTPEEAERWIVNLI RNARLDAKIDSKLGHVVMGNN AVSPYQQVIEKTKSLSFRSQML AMNIEKKLNQNSRSEAPNWAT QDSGFY
21234	51602	B	21361	1	909	
21235	51603	A	21362	3	3617	YWKERPTQKVIPRATENHGLKS YLQKTKLSIDEAAFLLPDTNLK SELLELLTHWLQVGVPMTPSLG SINLLGWLTELRETHTYICWFIV KETTRDTDEEMCRTEPALACSI SHYCDDGCIQMLNTPETLQCSA KDSKHFIPKECSIPGENRPPSDT GKTVKFLSLNIFNLQLAESTDA EQRANCILRCFLTETTLNYQKIL SVRPGTKLATASHVSGLGLQTP PFGLAQHLIRPHAFLAPKDPLTS FTERNSRSG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21236	51604	A	21363	75	2141	GPRLGLTTMWHEARKLGRRLR GLLFDSRKRAERRREYYEKIKK DPAQFLQVHGRACKVH\LDSA VALAAESPVNMMPWQGDTNN MIDRFDVRAHL\DHIPDYTPPLA HHHFSQNQESDER\KCNYERYR GLVQNDFAGISEEQCLYQIYIDE LYGGLQRPSEDEKKKLAEKKA SIGYTYEDSTVAEVEKAAEKPE EEESAAEEESNSDEDEVIPDIDV EVDVDELNQEQVADLNKQATT YGMADGDFVRMLRKDKEEAE AIKHAKALEEEKAMYSGRRSR RQRREFREKRLRGRKISPPSYAR RDSPTYDPYKRSPSESSSESRSR SRSPTPGREEKITFITSFGGSDEE AAAAAAAAAASGVTTGKPPAP PQPGGPAPGRNASARRRSSSSSS SSSASRTSSSRSSSRSSSRSRRGG GYYRSGRHARSRSRSWSRSRSR SRRYSRSRSRGRRHSGGGSRDG HRYSRSPARRGGYGPRRRSRSR SHSGDRYRRGGRGLRHHSSSRS RSSWSLSPSRSRSLTRSRSHSPSP SQSRSRSRSRSQSPSPSPAREKL TRPAASPAVGEKLKKTEPA\AG KETGAAKV\PKLTPQEKLKLRM QKPL\NRQFKADKKAAQRKR*S QAEHERQERKDEA\RAMARKIG MKERER\REKEREEWERQYSRQ SRSPLP/RDYSREYSSSRRRSRSR SRSPHYRH
21237	51605	A	21364	1	609	
21238	51606	A	21365	1	1227	
21239	51607	A	21366	1	1626	
21240	51608	A	21367	370	4388	GFIWNRITPTEDGQTRELQNHL GLSAPVPRGRKGKKVKTQTSSF DIQKAEWLRKYNPEQLLQDEG YKKHIKHHCNKVLLRVRMLYY LKQEVIGNECQKVFDGVDASDI DVWVPEPDHSEVPAEWWDFD ADKSLLIGVFKHGYEKYNTIRA DPALCFLERVGKPDEKAVAAE QRANDYMDGDVEDPEYKPAPA IFKDDIEDDVSSPGDLVIADGDG QLMEGDKVYWPTQSALTTRLR RLITAYQRTNKNRQIQQIQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21241	51609	A	21368	1	530	AEADAIIQMVREGQRARRQQQ AATSESSQSEASVRREESPMDV DQPSPSAQDTQSIASDGTPQG\E KEKEERPPELPLLSEQL\ALDEL WDMLGECLKELEESHDQHAVL ETHRTVLNQILRQSTTHLADGP FAVLVDYIRVLDFDVKRKYFR QELERLDEGLRKEDMAVHVRR DHVF
21242	51610	A	21369	1	217	
21243	51611	A	21370	274	599	PVSKESRVAPLCDFCLPFIQSES SQSEASVRREESPMDVDQPSPS AQDTQSIASDGTPQGEKEKEER PPELP/LLSEQLSLDELWDMLGE CLKELEESHDQHAVLVLQPA
21244	51612	A	21371	2	731	TPTPPTAPTPVTSAPALVAATAI STIVVAASTTVTTPTTATTTVSI SPTTKGSKSPAKVSDGGSSSTD FKMVSSGLTENQLQLSVEVLTS HSCSEEGLEDAANVLLQLSRGD SGTRDTVLKLLLNGARHLGYT LCKQIGTLLAELREYNLEQQRR AQCETLSPDGLPEEQPQTTKLK GKMQSRF\SGLGSASSIQAAVR QLEAEADAIIQMSESSQSEASVR REESPMDVDQPSPSAQDTQSIA
21245	51613	A	21372	208	423	LYVKPTAPPK*AL*SEGLE*MSP QCLWQGLQQGKAQKKLLEVP NKLTQTIN*PANVLILA*GGSSS YRPPHK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21246	51614	A	21373	1	2002	MPQLPGISLPEGVDPSFLAALPD DIRREVLQNQLGIRPPTRTAPST NSSAPAVVGNPGVTEVSPEFLA ALPPAIQEEVLAQQTAEQQRPE LAQNASSDTLMDPVTLIQTLPS DLRRSVLEDMEDSVLAVMPPDI AAEAQALRREQEARQRQLMHE RLFGHSSTSALSAILRSPAFTSR LSGNRGVQYTRLAVQRGGTFQ MGGSSSH\NRPSGS\NVDTLLRL RGRLLLDHEALSCLLVLLFVDE PKLNTSRLHRVLRNLCYHAQT RHWVIRSLLSILQRSSESELCIET PKLTTSEEKGKKSSKSCGSSSHE NRPLDLLHKMESKSSNQLSW/L SSVSMDAALGFR\TNIFQIQRSG GRKHTEKHASGGSTVHIHPQA APVVCRHVLDTLIQLAKVFPSH FTQQRTKETNCESDRERGNKA CSPCSSQSSSSGICTDFWDLLVK LDNMNVSRKGKNSVKSVPVSA GENKVSEAQANSGSGASSTTTA TSTTSTTTTTAASTTPTPPTAPTP VTSAPALVAATAISTIVVAASTT VTTPTTATTTVSISPTTKGSKSP AKVSDGGSSSTDFKMVSSGLTE NQLQLSVEVLTSHSCSEEGLED AANVLLQLSRRPARMLAMHW PSLYNVETEKTLALPNLIALQTS PFASGVIAKSSTDRLINQCAPV WRWR
21247	51615	A	21374	1	6384	MVSPEPKTGHSIRNWLDELKDL PILHAYSNLPSSPAVDLAIHSSK EGRMDWTEGQVTGPVVRSAAT SGAGSTTSGVVSGSLGSREINYI LRVLGPAACRNPDIFTEVANCC IRIALPAPRGSGTGNGSSRIPRES APEMATAESLVEELSEDAAGG ASPGVELPALGCSELPAAEVSP TASSKNLETICEYAYCMAMLPE TGLDPYPKRGFLDLTQERIWTD IPPSPGNIPTTHPLMVRHADHSS LTLGSGSSTT
21248	51616	A	21375	1	1356	
21249	51617	A	21376	80	608	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21250	51618	A	21377	298	1374	GRGDWPDILNLTQATASWTPR WCCLRKPVEAPSGGATEERTLS LTSLGLSMPADPCEGGARSCLV TESARGGLQNGQSVDVEETLPS EPENGALLRSERYQGPRRRACS ETLAESRTAVLQQRRAAQLPG GPAAAGEQRASPSKARLKEFLQ QCDREDLVELALPQLAQVVTV YEFLLMKVAESLGITEFLRKKEI HPDNLGPKHLSRDMDGEQLEG ASS\EKREREAAEEGLASVKRP RREALSND\TT\ESLAANSRGRE KPRPLHALAAGTIVSQEEDIVT VTD/GRGACLRMGPLEGVPLEA VESVVTVEPEPSQ*NGVRY*NS SDFIQRRSMASNVYFSNVNIAQ MNLLFIKNNVFL
21251	51619	C	21378	354	530	
21252	51620	A	21379	1	1272	MVLSEKASGSTLRGCTEERTLS LTSLGLSMPADPCEGGARSCLV TESARGGLQFLQQCDREDLVEL ALPQLAQVVTVYEFLLMKVAE SLGITEFLRKKEIHPDNLGPKHL SRDMDGEQLEGASSEKREREA AEEGLASVKRPRREALSNDTTE SLAANSRGREKPRPLHALAAES HTTTVSGGNGSVFQAGPQLQA LANLEARRGSIGAALSSRDVSG LPVYAQSGEPRRLTQAQVAAFP GENALEHSSAQDTWDSLRSPGF CSPLSSGGGAESLPPGGPGHAE AGHLGKVCDFHLNHQQPSPTS VLPTEVAAPPLEKILSVDSVAV DCAYRTVPKPGPQPGPHGSLLT EGCLRSLSGDLNRFPCGMEVHS GQRELESVVCLSAETMAF*NFP\ MGA\MSYCL\RD\RSRFLFRLPM GLSCPLQVQ
21253	51621	A	21380	90	204	
21254	51622	B	21381	13	423	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21255	51623	A	21382	1513	2405	RRAQYRRWWRRWRRRHREPE KEKRRHSRSHSRRRRTLIF*TQS RSRSRE*LHCQSRSR**FKSPRQ RRSHSRERGRSTARHYRST\KER QQRRSRSGTRSPKKSRCPKRKL SLSPSPGKHKKKKKDKERNRY ERERSTSKKKSKDREKDQERKS ESDTDVKVTRVYDEEEQGYDT SQEIEMHADNPAAIQTVVLQRD DLQNGLLSTCRELSRATAELER AWREYDKLEYDVTVTRNQMQ EQLDHLGEVQCWCYRTEKYV MERGPEQDPKRAFLDFVQERIQ GESAVQSESKFIKTVKK
21256	51624	A	21384	1	180	
21257	51625	A	21385	3	115	
21258	51626	A	21386	3	312	LPTALLRSTMALLHSGRVLPGI AAAFHPGL/AA/AASARASSWW THVEMGPPDPILGVTEAFKRDT NSKKMNLGVGAYRDDNGKPY VLPSVRKFVTVQTISGTGAL
21259	51627	A	21387	3	395	STMALLHSGRVLPGIAAAFHPC\ LAAAASARASSWWTHVEMGPP DPILGVTEAFKRDTNSKKMNLG VGAYRDDNGKPYVLPSVRKAE AQIAAKNLDLLPLLNVVCSLSS HTVSPAAQGGTRKEDILGFACC
21260	51628	A	21388	1	303	
21261	51629	A	21389	2	425	RPE*WKEIATVVKKRNLFALFD MAYQGFASGDGDKDAWALHH FIEQGINVCLCQSYAKNMGLYG EHVGAFTVVCKDADEAKRVES QLKILISPMYSNSPLNGAQIASTI PNTPVGLKVWVMGGLHDHPQ VMSDEKETTLRA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21262	51630	A	21390	3	1508	HEAGAGSLCVCPARPLLRPAAA HCPSYRSTMAHACTSGRVLPGI AAA\FHPGLAAAASARASSWW THVEMGPPDPILGVTEAFKRDT NSKKMNLGVGAYRDDNGKAL PCCPSVRKAEGPRLPQKIWDKE YL\PIGG\LAEFCKASAELALGE NNRSLERVGRFVTVQTHFWEL GALRI\GASFL\QRFFKFSRDVFL PKPTWGETTHPSFRDAG\MQL\ QGYR\YYDPKTCGFDFTGAVED ISKIPEQSVLL\LHACG/HNNPTG VDPRPEQWKEIATVVKKRNLF AFFDMAYQGFASGDGDKDAW AVRHFIEQGINVCLCQSYAKNM GLYGERVGAFTMVCKDA\DES KRVESQLKILIRPMYSNPPLNG ARIAAAILNTPDLRKQWLQEVK GMADRI\IGHAGLQLVSNLQGR EG\STH\NWATHSPTKLGMFCF HRG*KLEQVERLIKEFSIYMTK DGRISVAGVTSSNVGYLAHAIH QVTKYVSLVRGNGDNLSVLSL
21263	51631	A	21391	1	184	
21264	51632	A	21392	70	253	
21265	51633	A	21393	1	351	VMEFYCQSCETAMCRECTEGE HAEHPTVPLKDVVEQHKASLQ VQLDAVNKRWGTLPKPPTGCL YLRPGLMASC\QLTNQKASI/VD DIHSTFDELQKTLNVRKSVLLM ELEVNYGLKHK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21266	51634	A	21394	208	2546	WLHCMQQQRAGSKTAGPP\CQ WSRMAS\EGTNIP\SLVVGQI\DK QFLICSICLERYKNPKVLPCLHT FCERCLQNYIP\AHSLTLSCPVC RQTSILPEKGVAALQNNFFITNL MDVLQ\RTPGSNAEESSILETVT AVAAGKP\LSCPNHDGNVMEF YCQSCETAMCRECTEGEHAEH PTVPLKDVVEQHKASLQVQLD AVNKRWGTLPKPPTGCLYLRP GLMASC\QLTNQKASIVDDIHST FDELQKTLNVRKSVLLMELEV NYGLKHKVLQSQLDT\LLQGQE SIKSCSNFTAQTLNHGTETEVLL VKKQMSEKLNELADQDFPLHP RENDQLDFIVETEGLKKSIHNL GTILTTNAVASETVATGEGLRQ TIIGQPMSVTITTKDKDGELCKT GNAYLTAELSTPDGSVADGEIL DNKNGTYEFLYTVQKEGDFTL SLSLYDQHIRGSPFKLKVIRSAD VSPPTEGVKRRVKSPGSGHVKQ KAVKRPASMYSTGKRKENPIED DLIFRVGTKGRNKGEFTNLQGV AASTNGKILIADSNNQCVQIFSN DGQFKSRFGIRGRSPGQLQRPT GVAVHPSGDIIIADYDNKWVSI FSSDGKFKTKIGSGKLMGPKGV SVDRNGHIIVVDNKACCVFIFQ PNGKIVTRFGSRGNGDRQFAGP HFAAVNSNNEIIITDFHNHSVKV FNQEGEFMLKFGSNGEGNGQF
21267	51635	A	21395	1	591	
21268	51636	A	21396	3	608	LEGDQRWINTVSQALHLLSTLY GPFPNCYGIGRCAKMAYELWR NLEEEEDGETKGRRPEIGHIFLL DRGKLCPAFLSSFSPRRHGNME GVVAKLKS*S*GCESQL*GAWV LGPMESIKAALGHAV*KAGSGR TFMVRDLCF\DVDFVTALCSQV VYEGLVDDTFRIKCGKCYGPLH LGKMDGSSALAPATWGRVCGR DPHPE
21269	51637	A	21397	268	402	
21270	51638	A	21398	139	452	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21271	51639	A	21399	1	2497	MGPVAAPLGLSLPATDGAHSV RGNSVLVPSGLIPKDYRSLKTQ YLQSYGPEHLLTFSNLRRAGLL TEQAPGDTLTAVESKVSKLVTD KAAGKITDAFSSLAKRSNFRAIS KKLNLIPRVDGEYDLKVPRDM AYVFGGAYVPLSCRIIEQVLER RSWQGLDEVVRLLNCSDFAFT DMTKEDKASSESLRLILVVFLG GCTFSEISALRFLGREKGYRFIF LTTAVTNSARLMEAMSELPGK KDLFIETDLMSPLDRIANVSLLK QHEVDKLYKVENKPALSSNEQ LCFLVRPRIKNMRYIASLVNAD KLAGRTRKYKVIFSPQKFYACE MVLEEEGIYGDVSCDEWAFSLL PLDVDLLSMELPEFFRDYFLEG DQRWINTVAQALHLLSTLYGPL SQTCYGIGRCAK\MAYEFVEGT WEEEEDGRNPRARREGFG\HIF LL\DR\DVDFVDSTLLPKLVYEG LVDDTFRIKCGSVDFGPEVTSS DKSLKVLLNAEDKVFNEIRNEH FSNVFGFLSQKARNLQAYDR RRGMDIKQMKNFVSQELKGLK QEHY\LLSLHIG\ACESIMKKKT KQDFQE\LIKT\EHALLEGFNIRE STSYIEEHIDRQVS\PIESLRLMC LLSITENGLIPKDYRSLKTQYLQ SYGPEHLLTFSNLRRAG\LLTEQ APGDNLTAVESKVSKL\VTDKA AGKITDALS\SLAKRSQFRAISK
21272	51640	A	21400	1	216	
21273	51641	A	21401	2	270	
21274	51642	A	21402	1	600	SGRALHASWAAGGVGAYSGRL RSDALEGESFA\LSF\SSASDAEF DAVVGYLEDIIMDDEFQLLQRN FMDKYYL\EFEDTEENKLIYTP\I FNEYISLVEKYIEEQ\LLQR\IPEF NMAAFHHNITPSVPVCRHHKD EVAW*QYSAMLAPPFTRFSWA F*RNVFGTYRGRKKEGRGL\DL SSGLV\VTSLCKSSSL\PASQNNL RH
21275	51643	A	21403	1	297	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21276	51644	A	21404	1	1419	MGAPLLSPGWGAGAAGRRWW MLLAPLLPALLLVRPAGALVEG LYCGTRDCYEVLGVSRSAGKA EIARAYRQLARRYHPDRYRPQP GDEGPGRTPQSAEEAFLLVATA YETLKIVFPELKIVKELTTLLMP SRAVWIIWSHKMSGGGAGPEL DIGYVPVLLHMPKRIGSGMDTS RSTTVIPVEIRNKELIALLVKAQ DRQEEETNYKLRPFNGLSYEVG YLVILQDEETRKDYDYMLDHP EEYYSHYYHYYSRRLAPKVDV RVVILVSVCAISVFQFFSWWNS YNKAISYLATVPKYRIQATEIA KQQGLLKKAKAKSKNNKVQR RNS*\EEENIIKNIIKSKIDIKGGY QKPQICDLLLFQIILAPFHLCSYI VWHCRWIYNFNIKGKEYGEEE RLYIIRKSMKMSKSQFDSLEDH QKETFLKRELWIKENYEVYKQ EQEEELKKKLANDPRWKRYRR WMKNEGPGRLTFVDD
21277	51645	A	21405	1	1266	
21278	51646	A	21406	1	739	
21279	51647	A	21407	1	428	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21280	51648	A	21408	99	2338	MPEEVHHGEEEVETFAFQAEIA QLMSLIINTFYSNKEIFLRELISN AS\DALDKIRYESLTDPSKLDSG KELKIDIIPNPQEPYPGLWVDTG IG\MTKADLINNLGTIAKSGTKA FMEALQAGADISMIGQFGDGFY S\ANLVAK\KVVVITKHP\DDEQ YAWESSAGGSFTVRADHGEPIA \RGT\QVILHLKEDQTEYLEERR V\QEVVKKH\SQFIGYPITLYLE KEREKEISDDEAEEEKGEKEEE DKDDEEKPKIEDVGSDEEDDSG KDKKKKTKKIKEKYIDQEELNK TKPIWTRNPDDIT\QEEYGEFYK SLTNDWEDHLAVKHFSVEGQL EFRALLFIPRRAPFDLFENKKKK NNIKLYVRRVFIMDSCDELVPE\ YLNFIPGVVDSEDLPLNIFRKML QQNK/ILWKVIRKNIVKKCLELF SELAEDKENYKKFYEAFSKNLK LGIHEDSTN\RRRLSELLRYHTS QSG\DEMTSLSEYVS\RMKETQ MSIYYITGESK\EQVANSAFVER VRKRGFEVVYMT\EPI\DEYCVQ QLKEFDGKKLV\SVTKEGLELP EDEEEKKKMEESKAKFENLCK LMKEILDKKVEK\VTIS\NRL\VS SPC\CIGHKHLGAGQALIERDHE KPRALRDHPPQGGIMMGKKAP *ESPPDHPHFVETRAGRKADAR QVMIRAVKD/LWWVLLV*NPP LLSSGF\SLEDPQT/HTPNRIYRI
21281	51649	A	21409	1	426	
21282	51650	A	21410	1	1305	
21283	51651	A	21411	446	3180	VAVRLGSASQFPSGARPQLPRP PSWSSSIHSPISTTGLSESTDSDS KSGLRGFSAYNPSSRIPKSTTSS NSSDGAVTASNQDTGIPWVLV TGPTPPVNSPVESLQGSAFSSGF STPRGLVKGPTLPPDSNLTSVSD YTWIFVRGPPIPNDLSQVSIQAP PTPSNTPECQYKGLPHPQCPASP GVWYQDHLYPITFPQCRHKHL LHPITSPQCQGRRLPPPQCLTLR GVQYKNLLHPVILSSCRHKDIL NLITLAE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21284	51652	A	21412	24	667	MLPWLNCITTGVPWTPTSKRW LRNSKVCDCCDKTPSNAFSLLS VPPTTTSPASLAWWSGCARLLD LGSSSLMMSPTMASPACRPWL GQRWRLISGSWAWAIVPVT*VP VPEPSWKNRAG*PGCSSYESPH MRRPTRPSASCLEWAPRASLA MHLMATSFCVLLSSARITSEKA PLSGEGIHKVKNWNPSFPPASPP FPMGSVTTAGPRTWMTLP
21285	51653	A	21413	1	304	RAQVLPARCYPGSTVSPLGFRG LPLPRGGSEIPRCATAATRPHR MPFLFYLFLQQQHRPHHWHGG AAVPGFWTSAHPA\CDVTYHGF PSLQALAGPPWQCI
21286	51654	A	21414	1	7629	
21287	51655	A	21415	180	423	
21288	51656	A	21416	17	753	QAHTRRAGGRAQVLPARCYPG STVSPLGFRGLPLPRGGSEIPRC ATAATRPHRMPFLFYLFLQQQH RPHHWHGGAAVPGFWTSAHPA \CDVTYHGFPSLQALAGPEVEA HLRKLGLGYRARYVSASARAIL EEQGGL/RLAAAATRVLI*GGP QGPLHPAWSGHQGG*LHLPDG PRQAPGCARGCPYVAHCPT*LQ LAPYHVPGEGTEPPDQQGTGKL FPEPVGTLCWLGPSALSGHHHF YDLSRTP
21289	51657	A	21417	17	1087	QAHTRRAGGRAQVLPARCYPG STVSPLGFRGLPLPRGGSEIPRC ATAATRPHRMPFLFYLFLQQQH RPHHWHGGAAVPGFWTSAHPA \CDVTYHGFPSLQALAGPEVEA HLRKLGLGYRARYVSASARAIL EEQGGL/RLAAAATRVLI*GGP QGPLHPAWSGHQGG*LHLPDG PRQAPGCARGCPYVAHCPT*LQ LAPYHVPGEGTEPPDQQGTGKL FPEPVGTLCWLGPSGWIRCLLK NYRLLPLDLEGLLGNAFDGHQ LLRPLIFCQDHLREGPPIGRGDS QGEELEPQLPSSLSSIPYGFCDH CWTKDVDDPPLVTHPSPGSRD GHMTQAWPVKVVSPLATVIGH VMQASLLAL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21290	51658	A	21418	3	1584	TQKNTAVRAHRLWGREKISRK EGAGPTPQESRRIGARSGALMT RKGRGMQEVEELSETGKVVKQ HRVGEALRVVVLVWAGSLG/D RRGLVLGRRGYYGAVPAVEMP ARALLPRRMGHRTLASTPALW ASIPCPRSELRLDLVLPSGQSFR WREQSPAHWSGVLADQVWTL TQTEEQLHCTVYRGDKSQASRP TPDELEAVRKYFQLDVTLAQL YHHWGSVDSHFQEVAQKFQG VRLLRQDPIECLFSFICSSNNNIA RITGMVERLCQAFGPRLIQLDD VTYHGFPSLQALAGPEVEAHLR KLGLGYRARYVSASARAILEEQ GGLAWLQQLRESSYEEAHKAL CILPGVGTKVADCICLMALDKP QAVPVDVHMWHIAQRDYSWH PTTSQAKGPSPQTNKELGNFFR SLWGPYAGWAQAGLLGNAFD GHQLLRPLIFCQDHLREGPPIGR GDSQGEELEPQLPSSLSSIPYGF CDHCWTKDVDDPPLVTHPSPG SRDGHMTQAWPVKVVSPLATV IGHVMQASLLAL

.

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21291	51659	A	21419	837	2785	WTRMLFAVSCNDGECQNSNVI LFCDMCNLAVHQECYGVPYIPE GQWLCRRCLQSPSRAVDCALC PNKGGAFKQTDDGRWAHVVC ALWIPEVCFANTVFLEPIDSIEHI PPARWKLTCYICKQRGSGACIQ CHKANCYTAFHVTCAQQAGLY MKMEPVRETGANGTSFSVRKT AYCDIHTPPGSARRLPALSHSE GEEDEDEEEDEGKGWSSEKVK KAKAKSRIKMKKARKILAEKR AAAPVVSVPCIPPHRLSKITNRL TIQRKSQFMQRLHSYWTLKRQ SRNGVPLLRRLQTHLQSQRNCD QVGRDSEDKNWALKEQLKSW QRLRHDLERARLLVELIRKREK LKRETIKVQQIAMEMQLTPFLIL LRKTLEQLQEKDTGNIFSEPVPL SEVPDYLDHIKKPMDFFTMKQ NLEAYRYLNFDDFEEDFNLIVS NCLKYNAKDTIFYRAAVRLRE QGGAVVRQARRQAEKMGIDFE TGMHIPHSLAGDEATHHTEDA AEEERLVLLENQKHLPVEEQLK LLLERLDEVNASKQSVGRSRRA KMIKKEMTALRRKLAHQRETG RDGPERHGPSSRGSLTPHPAAC DKDGQTDSAAEESSSQETSKGL GPNMSSTPAHEVG\GEPQFCSP KRTRRQ/HGPPKRPGRPPKNRES QMTPSHGGSPVGPP/RAPHHEFP ASAQAG*EPQFCSPKRTRRQLD
21292	51660	A	21420	1	2625	MENKITGYTTVDISQWHRKEHF EAFQSVAQCTYNQTVQLDITAF LKTVKKNKHKFYPAFIHILARL MNAHPEFRMAMKDGELVIWD SVHPCYTVFHEQTETFSSLWSE YHDDFRQFLHIYSQDVACYGE NLAYFPKGFIENMFFVSANPWV SFTSFDLNVANMDNFFAPVFTM GKYYTQGDKVLMPLAIQRDSE DKNWALKEQLKSWQRLRHDL ERARLLVELIRKREKLKRETIKV QQIAMEMQLTPFLILLRK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21293	51661	A	21421	164	1401	PPKGRGMQEVEELSETGKVVK QHRVGEALRVVVLVWAGSLG/ DRRGLVLGRRGYYGAVPAVE MPARALLPRRMGHRTLASTPA LWASIPCPRSELRLDLVLPSGQS FRWWREQSPAHWSGVLADQV WTLTQTEEQLHCTVYRGDKSQ ASRPTPDELEAVRKYFQLDVTL AQLYHHWGSVDSHFQEVAQKF QGVRLLRQDPIECLFSFICSSNN NIARITGMVERLCQAFGPRLIQL DDVTYHGFPSLQALAGPEVEA HLRKLGLGYRARYVSASARAIL EEQGGLAWLQQLRESSYEEAH KALCILPGVGTKVADCICLMAL DKPQAVPVDVHMWHIAQRDY SWHPTTSQAKGPSPQTNKELGN FFRSLWEPYAGWAQATPPSLQ VLFSADLRQSRHAQEPPAKRRK
21294	51662	A	21422	751	2107	SSEHPRELHRIPISWAMSELKDC PLQFHD\FKSVDHLKVCPRYTA VLARS\EDDGIGIEELDTLQLEL ETLLSSASRR\LRVLEAETQILT D\WQDK\KGDRRFLKLG\RDH\E FGAPPKHGKPKK\QKLE\GKAG HGPGP\CPGRPKSKNLQPK\IQE YEFTDDPIDVPRIPKNDAPNRF WASVEPYCADITSEEVRTLEEL LKPPEDEAEHYKIPPLGKHYSQ RWAQEDLLEEQKDGARAAAV ADKKKGLMGPLTELDTKDVDA LLKKSEAQHEQPEDGCPFGALT QRLLQALVEENIISPMEDSPIPD MSGKESGADGASTSPRNQNKP FSVPHTKSLESRIKEELIA\QALL *AGDLLAKDSEDEVLAELRKR QG\EL\KALSAHNRTKKA\DLLR LAKEEVSRQE\LRQR\VRRAERE GMDAFRKIHGLPGRRKRNSPPK K\EKDQAWKNS*KEREEHP
21295	51663	A	21423	107	331	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21296	51664	A	21424	387	1071	NNPEWRTLIYVDKENGEPGTR VVAKDGLKLG\SGPSIKALDG\R SQVS\TPRFGKTFDAPTQPYLKL PRKALG\TVNR\TTEKSVKDPGD PSNKKQPKLFRPKKDGPEEGLL KAKKPLFPGLQD*CPIPEIRKIPF PFNPS*TLRSF*PCPEEHPDCGTF PL*VGV\PLMIPLTREREL*KSW FQLGPPFHLWKDGPLPPWGIPIC LQFSFQGISVRTWGV\DLPPVCC DIDI
21297	51665	A	21425	480	1270	RSVKKVGAQRPGSGGGWGGN EGWVPQATAPGWAYTHVLFLY LFVTTPISAALRADGFGDNPFY HCLVAEILPAPGKLLGKSTWPL EVHLSSRPQRSPHRLPEALLPFS LSQG/HCVVGYGIYYFIYSTWK GRTIYLEDIYVMPEY/RGYWAE AEAGVGAKHPTDPTVIPCPQSP AGVIF*SPSAQTIAIFCLFLSTTG QGIGSKIIKKVAEVALDKGCSQ FRLAVLDWNQRAMDLYKALG AQDLTEAEGWHFFCFQGEATR KLAGK
21298	51666	A	21426	182	797	LPFARPWDFGPRQRGSGWLPC GSREAKEGDCGDIL\RLIRVKTA GPELAEFEKLFGSGERSVEEAL ESRLAFGDNPFYHLFW*AEILP APGESYWG/HCVVGYGIYYFIY STWKGRTIYLEDIYVIAGNIGV QGIGSQK*SKKV\AEVALGIRGC SPNFRLARPLD\WNPEGPWDLY KAPRSPKI*RKLEGWHFFCFQG EATRKLAGK
21299	51667	A	21427	224	490	QAGFISARNITWR*ANRRSTWR SYRRKSGRTANCPPISPPACSRC SAPIFIPKNGWWRAMVAPLKW PSTGAFNRLFVPLLTWWRSPDR
21300	51668	A	21428	301	773	HGPGTQQRPRSIWRMPQ*ARPG GRSLAVGGGPRPRAAGGFP*VA SRARRCQR\AHGCHCAFSPLSP ALLSQDAGLCQSRPLLLGQRRC LSQEVWSGLGNVHFCQPPEDA ATTPSCPEALTAQGQQASVCDR VSHRFSTWSMVRCSDRTEGQR LQTLGD
21301	51669	B	21429	1	1380	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21302	51670	A	21430	1	1660	AGVLASHPNSTDVHIINLSLTFH GQELLSDTKLELNSGRRYGLIG LNGIGKSMLLSAIGKREVPIPEH IDIYHLTREMPPSDKTPLHCVM EVDTERAMLEKEAERLAHEDA ECEKLMELYERLEELDADKAE MRASRILHGLGFTPAMQRKKL KDFSGGWRMRVALARALFIRPF MLLLDEPTNHLDLDACVWLEE ELKTFKRILVLVSHSQDFLNGV CTNIIHMHNKKLKYYTGNYDQ YVKTRLELEENQMKRFHWEQD QIAHMKNYIARFGHGSAKLAR QAQSKEKTLQKMMASGLTERV VSDKTLSFYFPPCGKIPPPVIMV QNVSFKYTKDGPCIYNNLEFGI DLDTRVALVGPNGAGKSTLLK LLTGELLPTDGMIRKHSHVKIG RYHQHLQEQLDLDLSPLEYMM KCYPEIKEKEEMRKI\IGRYGLT G\KQQVSPIRNLSDGQKCRVCL AWLAWQNPHMLFLDEPTNHL DIETIDALADAINEFEGGMMLV SHDFRLIQQVAQEIWVCEKQTI TKWPG\DIL\AYKEHLKSKLVD\

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21303	51671	A	21431	78	2022	NNSNLPLWVIIMPSDLAKKKAA KKKEAAKARQRPRKGHEENGD VVTEPQVAEKNEANGRE/TTRE VDLLTKELEDFEMKKAAARAV TGVLASHPNSTDVHIINLSLTFH GQELLSDTKLELNSGRRY\GLIG LNGIGIGKSMLLFAIGKREVPIP EHIDIYHLTREMPPSDKTPLHCV MEVDTERAMLENEAERLAHED AECEKLMELYERLEELDAD*AE MRASRI\LHGLGFTPAMQRKKL KDFSGGWRMRVALARALFIRPF MLLLDEPTNHLDLDACVWLEE ELKTFKRILVLVSHSQDFLNGV CTNIIHMHNKKLKYYTGNYDQ YVKTRLELEENQMKRFHWEQD QIAHMKNYIARFGHGSAKLAR QAQSKEKTLQKMMASGLTERV VSDKTLSFYFPPCGKIPPPVIMV QNVSFKYTKDGPCIYNNLEFGI DLDTRVALVGPNGAGKSTLLK LLTGELLPTDGMIRKHSHVKIG RYHQHLQEQLDLDLSPLEYMM KCYPEIKEKEEMRKIIGRYGLT GKQQVSPIRNLSDGQKCRVCLA WLAWQNPHMLFLDEPTNHLDI ETIDALADAINEFEGGMMLVSH DFRLIQQVAQEIWVCEKQTITK WPGDILAYKEHLKSKLVDEEPQ LTKRTHNVCTLTLASLPRP
21304	51672	A	21432	313	599	
21305	51673	A	21433	737	1006	DNPVVFVFGSVYMLDYVY*FS YVEPPLHPWDEAHLIMVDKLF DVLLDSVCQYFIEDFCINVNQG YWSKILFFCCISARLWYQDDAG
21306	51674	A	21434	1108	1260	GVNF\NLSCFLLWAFSAIHFPLH TALNVSQRFWYVVSLFSLVSK NIFISAF
21307	51675	A	21435	804	917	
21308	51676	A	21436	158	298	
21309	51677	A	21437	1	1068	
21310	51678	A	21438	1	1188	
21311	51679	A	21439	122	352	
21312	51680	A	21440	647	662	ICGVISEGSVLFH*SISLFWYQY HAVLVT/DSLVV*FEVT*HDASS FVLLA*DRRPEGSSPKSP
21313	51681	B	21441	53	692	
21314	51682	B	21442	1	925	
21315	51683	A	21443	606	900	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21316	51684	A	21444	33	852	CWKFWARAN*AGGITLPDFKL YYKATVTKTAWKFHFTMFGV DLKETCTAPSLWKDLALNTVE LVCKLCVRQVEGARQIFQLNCT VSE
21317	51685	A	21445	3	795	
21318	51686	A	21446	475	1023	CWFSAGDGGLPGPDYGQDFAA HPAGAGALYKCRDLINDNILRT VSCQSHDDGDIRGMAFARQ*Q RPVQIDHNMARRG**AATFQPI NKTFSGIHWPHGMRTGGTNPN FENIECTNHIHTLGLPFSEVERN DCDGFNFQLHIFRQTRDLHTAP GRIGRLMLIEELLIDFVDGGKII QIGDKHGH
21319	51687	A	21447	1637	2020	PSSEEFTGGPARGFPERARAQL TGRTPGQRTQLDNDLLTKSTP WRGVMGPTLLPGLLAGPFQPL GHTGPFYPQGFRWQKTHWVRL AQAHWQF*LGQFRGPKTADGG GSKGPGLSASHGAKHHVITYV
21320	51688	A	21448	1051	1185	
21321	51689	A	21449	1290	2025	
21322	51690	B	21450	1	1410	
21323	51691	A	21451	3269	3678	SLSIRLATAPCWLRYFASSRRFQ PTRSAGSVTDSSVTASASSPG*R *NASP\CRERSHRSSRGQARRSL HLWDRSDR*TLPCDHGRCCHA NDQQVGFAGNYSTAGQT*RWT GFTAGHAGRDINKSADKLPAT AGKR
21324	51692	B	21452	2655	2825	
21325	51693	A	21453	1	896	MGDFNTPLSTLDRSMRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQNHSTTWKLN NLLLSDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQLKELEKQEQTHSKASRRQE ITKIRAELKEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDKGDITTDPTE\YK LPSENTTNTSTQIN*KI*KKWIN SSTHTLSQD

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21326	51694	A	21454	23	559	TPGLRQSSLSPSAFASQNAGVS GIGGFLVSLTSRMKPWTLAMFR CVWSFFLLVGSWSCWLQE*SC RPSQ*VSQFL/NSSASGVVCCSC LELFVPPGGFVVSLASRVKLQT FTVSVTAHKGGVDPKSEQQQD LVQKAKEHSFCSVEADLSGLPL LAGAACFYSLMEPHPHPADWSI LQRAD
21327	51695	A	21455	26	323	
21328	51696	A	21456	221	734	
21329	51697	A	21457	293	2103	PCHSALSSPLPHRDCIALCFLNS GTSFVAGFAIFSILG\FMF\QEQG VPISEVAESGPGLAFIAYPRAVV MLPFSPLWACCFFFMVVLLGL DSQFVCVESLVTALVDMYPHV FRKKNRREVLILGVSVISFLVGL IMLTEGGMYVFQLFDYYAASG MCLLFVAIFESLCVAWVYGAK RFYDNIEDMIGYRPWPLIKYCW LFLTPAVCTATFLFSLIKYTPLT YNKKYTYPWWGDALGWLLAL SSMVCIPAWSLYRLGTLKGPFR EVIIPVSIRMTKVAGTAGLSGN VGPRCDLSRIEELPDGGTRCGM DSRVSGTTSNGETKPVYPVME KKEEDGTLERGHWNNKMEFVL SVAGEIIGLGNVWRFPYLCYKN GGVVGFYNSIKNIPILQRVILFV RIHNMLNKGQGVLAKCDAAK KIEEKEADAGSASVPGDVMRT KKLSFEGAWHPCLLVGLKLSD ALELRGGFISARIAGPRAAESDS VGLERELRVCIANKLPGEADAA GPGTTFWKHCSMPITDGADAV EGRNTQEAFFRQLNPEAAFLHF MEMVDTNALHVHGIHTRKNHP GQKEAAHSQHGTFPIRWTLNLL KRTFQKGNRAEPNSPAM
21330	51698	A	21458	1	419	MKLRTLAVSATALKVARLEFV PFDVRMCSEFLSSGVKLQTFAV SVTALNALRLELFVPPGGLMVS LASGVKLQIFTVSVTAHKSSVD PKTLG/CVDGTGRRGAGGGAH RGGLGRTGAHGGGGRLRHGGL QVSSPAPRKGS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21331	51699	A	21459	24	1639	GGMDSRVSGTTSNGETKPVYP VMEKKEEDGTLERGHWNNKM EFVLSVAGEIIGLGNVWRFPYL CYKNGGGAFFIPYLVFLFTCGIP VFLLETALGQYTSQGGVTAWR KICPIFEGIGYASQMIVILLNVY YIIVLAWALFYLFSSFTIDLPWG GCYHEWNTGNWVDVVE/HGG* GEWCGNGSNTPHVCR/VTGWT W*SRWLKGMVWEWIQHTPCV QGTGWTW*STWLKG/PGNRVD VVEHVAEGNGVGMDPTHPTCA GNRVDVVEQVAEGNEHCMEF QKTNGSLNGTSENATSPVIEFW DSPPGPQFVCVECLVTASIDMF PRQLRKSGRRELLILTIAVMCY LIGLFLVTEGGMYIFQLFDYYA SSGICLLFLSLFEVVCISWVYGA DRFYDNIEDMIGYRPWPLVKIS WLFLTPGLCLATFLFSLSKYTPL KYNNVYVYPPWGY\SIGWFLA LSSMVCVPLFVVITLLKTRGPFR KVGGVGESDLLKEGTERGWT WGRTHNWGQGADTNSECGAA LQSHRILTRRTLKTSPVAFQKCS
21332	51700	A	21460	1358	4787	RRCYCGIWSRYLLKRLWKWIS GEGWAEKDSARRRGICTFWLE FE/VTCLSWNSLF/YAHINVDISG MKVPWLYVGMCFSSFCWHIED HWSYSINYLHWGEPKTWYGVP SHAAEQLEEVMRELAPELFESQ PDLLHQLVTIMNPNVLMEHGV PVYRTNQCAGEFVVTFPRAYHS GFNQGYNFAEAVNFCTADWLP IGRQCVNHYRRLRRHCVFSHEE LIFKMAADPECLDVGLAAMVC KELTLMTEEETRLRESVV
21333	51701	A	21461	1	5773	MEEKPLKVKGKDSSEKKRKRK LEKVEQLFGEGKQKSKELKKM DKPRKKKLKLGADKSKELNKL AKKLAKEEERKKKKEKAAAAK VELVKESTEKKREKKVLDIPSK YDWSGAEESDDENAVCAAQN CQRPCKDKVDWVQCDGGCDE WFHQVCVGVSPEMAENEDYICI NCAKKQGPVSPGSHKAVITVV VKAVSYLKFEEESTSELMWLL AAFSSFWVVGIKALDFVWPLA REEKEIGDNKDLERNKIGVNM

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21334	51702	A	21462	85	1333	STSRALSGAQRFGRLIDHGARV PALLLLLLPL\VHVSATTPEPR\E LDDEDFRCVCNFSEPQPDWSEA FQCVSA\VEVEIHAG\GLNL\EPF LK\RVDADADPRQYA\DTVKGF PR/VRRASQVGAAQVPA\QLLV GALR\VLA\YSRFKELTLEDLKI TG\TMPPLPLEATGLALS\SLRLR NVSW\ATGRSWL\AEL\QQWLK PG\LKVLSIAQAHSPAFSCEQVR CFPGPSPA*DLSDNPGTGANAE LMAALCPHKFPA\IQNL\ALRNT GNGRRPQGVCAALAAAGVQPH SLDVSHNSLRANRNPS\AP\RCM \WSNA\LNSPQICRFAGAGTGVP KGPAPAKL\RVLRSSACNRL\NR A\PQPWTSLPE\VDNLGQLDGNP FPGSPGTGPSPTEGSMN\SGVVP SLCNVRTCRVGVSGTLVLLQG ARGFA
21335	51703	A	21463	1640	5804	TITGSSPLAGGHHSTCRGRMDM VENADSLQAQERKDILMKYDK GHRAGLPEDKGPEPVGINSSIDR FGILHETELPPVTAREAKKIRRE MTRTSKWMEMLGEWETYKHS SKLIDRVYKGIPMNIRGPVWSV LLNIQEIKLKNPGRYQIMKERG KRSSEHIHHIDLDVRTTLRNHV FFRDRYGAKQRELFYILLAYSE YNPEVGYCRDLSHITALFLLYL PEEDAFWALVQLLASERHSLPG FHSPNGGTVQGLQD
21336	51704	A	21464	1	960	
21337	51705	A	21465	1	1317	
21338	51706	A	21466	1	3393	
21339	51707	A	21467	2745	6141	QGSKGTCHPQAQQPWDEGVW QEAPSQSEPWGQSQEPPTMPQR LPHARQHTPLPLGSADYRRVVS VRPQGPHRDPKDSRDAAKREQ GSLAPRPVPASRGGKTLCKGYR QAPPGPPAQFQRPICSASPPWAS RFSTPCPGGAVREDTYPVGTQG VPSLALAQGGPQGSWRFLEWK SMPRLPTDLDIGGPWFPHYDFE RSCWVRAISQEDQLATCWQAE HCGEVHNKDMSWPEEMSFTAN SSKIDRQKVPTEKGATGL
21340	51708	A	21468	65	320	
21341	51709	A	21469	3	505	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21342	51710	A	21470	2	1756	CRCHSELSGSSL*/CCTRGIGGAI GAVGFRSQAASTLAGQPDGNG VCVHAGNSRIFVPLPVGLEVKG FSHSAFTFGIESHISQSNINGTLV PPSALISILQKGLQYVEAEISINK DGTVFDSRPIESLSLIVAVIPDV VQMRQQAFGEKLTQQQASAA ATEASAMAKAATMTPAAISQQ NPPKNREATVNGEENGAHEINN HSKPMEIDGDVEIPPNKATVLR GHESEVFICAWNPVSDLLASGS GDSTARIWNLNENSNGGSTQL VLRHCIREGGHDVPSNKDVTSL DWNSDGTLLAMGSYDGFARIW TENAPALDVDWQNNMTFASCS TDMCIHVCRLGCDHPVKTFQG HTFCTCIESICFWGGLRKLTTM TEGKRLRPKTFCSDGGALLPPA GRRPHLLTGPDIFFKRLSALFQN EVNAIKWDPSGMLLASCSDDM TLKIWSMKQDACVHDLQAHSK EIYTIKWSPTGPATSNPNSSIML ASASFDSTVRLWDVEQGVCTH TLMKHQEPVYSVAFSPDGKYL ASGSFDKYVHIWNTQSGSLVHS YQGTGGIFEVCWNARGDKVGA SASDGS\VCILWQLSGKQ
21343	51711	A	21471	1	1647	
21344	51712	B	21472	4	267	
21345	51713	A	21473	1	1824	
21346	51714	A	21474	33	543	TFEGANNFVGDPIVLPCNPPKG LPPLHIYWMNIELEHIEQDERV YMSQKGDLYFANVGRKRDSRN D\YCCFA\AFPRIKGLLYRKMPM /RNLTVNSSNSIKAKENPKLLLA SPLRSGSESSITILKGEILLLECF AEGLPTPQVDWNKIGGDLPKG REAKENYGKTLKIENVY
21347	51715	A	21475	197	516	TYLAAGRTPTLDPWNQERCTM PSGSIWILETTHSSFGWVTVAH LSSDPKGCQF*VGSRIGEGSATD PAFCASCSATWTIRPSRSNGA*G VNG**VCWLEPLAGPHR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21348	51716	A	21476	1	1766	MNVALTHIDTHHAEFEMALQA ALVWNTLRTAGGKKSVHLASA LLVHEIIIDGANLTISNVTLEDQ GIYCCSAHTALDSAADITQVTV LDVPDPPENLHLSERQNRSVRL TWEAGADHNSNISEYIVEFEGN KEEPGRWEELTRVQGKKTTVIL PLAPFVRYQFRVIAVNEVGRSQ PSQPSDHHETPPAAPDRNPQNIR VQASQPKEMIIKWEPLKSMEQN GP\GLEYRVTWKPQGAPVEWE EETVTNHTLRVMTPAVYAPYD VKVQAINQLGSGPDPQSVTLYS GEDLPEQPTFLKVIKVDKDTAT LSWGLPKKLNGNLTGYLLQYQ IINDTYEIGELNDINITTPSKPSW HLSNLNATTKYKFYLRACTSQ GCGKPITEESSTLGEGSVSLEKC ENKLIRNIGTKKQGTAIRIPENV EAALELRKQQKLEECGGFRRRE NANEQQGVTEEFKQQNEKLRF LLLKIVILAVAREMTWNGEGR DLSEPSLTVVFADLSSPAYSLHT TMAQEPGPGLFLSLSTIPWPISSI PMIHASVQVSWIPLLRNSLMVH IHSSLEQRNLKVHISKEQKKLNS VDSDLTDNPPTHTVN
21349	51717	A	21477	1	1440	
21350	51718	A	21478	266	3974	RAMEPLLLGRGLIVYLMFLLLK FSKAIEIPSSVQQVPTIIKQSKVQ VAFPFDEYFQIECEAKGNPEPTF SWTKDGNPFYFTDHRIIPSNNS GTFRIPNEGHISHFQGKYRCFAS NKLGIAMSEEIEFIVPSVPKFPK EKIDPLEVEEGDPIVLPCNPPKG LPPLHIYWMNIELEHIEQDERV YMSQKGDLYFANVEEKDSRND YCCFAAFPRLRTIVQKMPMKLT VNSLKHANDSSSSTEIGSKANSI KQRKPKL

2728

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21351	51719	A	21479	1	2421	QAGAMASGSVAECLQQETTCP VCLQYFAEPMMLDCGHNICCA CLARCWGTAETNVSCPQCRETF PQRHMRPNRHLANVTQLVKQL RTERPSGPGGEMGVCEKHREPL KLYCEEDQMPICVVCDRSREHR GHSVLPLEEAVEGFKEQIQNQL DHLKRVTRLKFTDFLAQGEQA RAELLSLTHMEREKIVWEFEQL YHSLKEHEYRLLARLEELDLAI YNSINGAITQFSCNISHLSSLIAQ LEEKHQQPTRELLQDIGDTLSK AERI\RIPEPWITPPDLQEKIHIFA PKCLFLTESLKQFTEKMQSDME KIQELREAQLYSGGSIVGGHEP GEPRGIKAGYGTCNCFPEEEKC FCEPEDIQDPLCDELCRTVIAAA VLFSFVVSVLLSAFCIHCYHKF AHKPPISSAEMTFRRPAQAFPVS YSSSGARRPSLDSMENQVSVDA FKILEDPKWEFPRKNLVLGKTL GEGEFGKVVKATAFHLKGRAG YTTVAVKMLKENASPSELRDL LSEFNVLKQVNHPHVIKLYGAC SQDGPLLLIVEYAKYGSLRGFL RESRKVGPGYLGSGGSRNSSSL DHPDERALTMGDLISFAWQISQ GMQYLAEMKLVHRDLAARNIL VAEGRKMKISDFGLSRDVYEE DPYVKRSQGRIPVKWMAIESLF DHIYTTQSDVWSFGVLLWEIVT LGGNPYPGIPPERLFNLLKTGH

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21352	51720	A	21480	79	2253	PSATLSCPTSVAASLGEPAVFPL SLRGHRRRHRPGHSKPSVRGRV WDTGPGGAALRPPGASQEQRT GESAGELGSVQSSAPGPMPVRP RRPGAMASGSVAECLQQETTC PVCLQYFAEPMMLDCGHNICC ACLARC\WGTEET\NVS\CPQCR E\TFPQRHMRPNRHLANVTQLV KQLRTERP\SGPGGEMG\VCE\K HREPLKLYCEEDQMPICVVCDR SREHRGHSVLPLEEAVEGFKEQ IQNQLDHLKRVKDLKKRRRAQ GEQARAELLSL\TQ\MEREKIVW E\FEQLYHSLKEHEYRLLARLEE LDLAIYNSINGAITQFSCNISHLS SLIAQLEEKQQQPT\RELLQDIG DTLSRAERIRIPEPWITPPDLQE KIHIF\AQK\CLFLTESLKQFTEK MQSDMEKIQELREAQLYSVDV TLDPDTAYPSLILSDNLRQVRY SYLQQDLPDNPERFNL\FPCVLG SP\CFIAGETIIWEGRGWGDKAK WTIG\VC*RLSCQEKGGVTSAP QNGFW\AVSLWYGK\EYW\ALT SPMTALPLRTPFQ\RVGIFL\DYD A\GEVSF\YN\VTERC/HTPFTFSS CLPFGGLVRPLLSSLSYSGREK VQLPLINLPP*SGIDGGFLAHVG \NHGSFPWKTFPFEGRVNSGPK GLLAVILRPGTRHLVCLANVLS KLGILNHVPRPCSGRHGCPCSLP SFFLPMQIVKCNEMYQDILEIKT
21353	51721	A	21481	1	1068	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21354	51722	A	21482	955	2548	MSLCGARANAKMMAAYNGGT SAAAAGHHHHHHHHLPHLPPP HLHHHHHPQHHLHPGSAAAVH PVQQHTSSAAAAAAAAAAAAA MLNPGQQQPYFPSPAPGQAPGP AAAAPAQVQAAAAATVKAHH HQHSHHPQQQLDIEPDRPIGYG AFGVVWSVTDPRDGKRVALKK MPNVFQNLVSCKRVFRELKML CFFKHDNVLSALDIL*PPHIDYF EEIYVVTELMQSDLHKIIVSPQP LSSDHVKVFLYQILRGL\KYLHF RLGILH\RDIKPGNLLVNSNCVL KICDFGLARVEELDESRHMTQE VVTQYYRAPEILMGSRHYSNAI DIWSVGCIFAELLGRRILFQAQS PIQQLDLITDLLGTPSLEAMRTA CEGAKAHILRGPHKQPSLPVLY TLSSQAT\H*TGHLLFAECGFDP SKRISAKDALSHPYLDEGRLRY HTCMCKCCLSPS\TGRVNT\SDL EPVT\NPKFDDTFEKNLSPVRQV KEIIHQFILEQ\QKGNRV\PLWIN PQSAVFKSFISSTVAQPSEMPP\S PLVWE
21355	51723	A	21483	119	692	SYKSRLARKS\TGGKAP\RKQLA YKKPASQECGPLTGGVKKPHR YR\PGTVAAP*NLDGYQKSTE\L MIRK\LRFQR\LVREIAQ\DF\KT DLRFQSAVIRWLCRMAS\EAYL VWPFLKDTNLVCLSMPKRVTIY AKKTFQLSTPASRGERALRIHS WMGKHFILKKKKKKFLFFLLL VVLNVRYFFFHGVKRYLSI
21356	51724	A	21484	2	363	RFTKVEMKEK\MLSAAREKGR VTHKGKPISLKADLSAETLQAR REWGPIFNILKEKNFQPRISYPA KLSFISEQEIKYFTDKQMLRDFV ITRPALKELLKEALNMERNNW YQPLQKHAKL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21357	51725	A	21485	1	1468	MRNLRNIQKAKATINLGISFDE GLKGFMWSRIEAAPLPNTRWC LPHGYSGPANSGGCYYITTGMS CWLSDLYPRHDGVHVGLQGK DLEHDIPVDLGSRPTSVDPVSRS APGPQGPKAPVDSGSRTTPANP GAGPSPVDPSSRPAPVASGFRLI MIDQNTKLIPVPGWPLRLRLKI YLSSRSASLDSGSRFAPVDTNFI PVPTDRGHSHAPEDPVDRLTSV DPTKEKNWMENEFDKLTEVGF RRSVITNFSELKEHVLTHRKEA KNLEKRLDEWLSRITCAEKSLN DLMELKTTVRELREAYTSFMS QFDQAEERISVIEDQINEIKLKSL QAQEDARHRNTDQRSSENRRS EPWSLEERKREQWNSLKQNAD QQDTEAMSDYK/R/YSSET*RRR *LFCLLRKVHSKEGP*KKDQRE TRNQKGLGFLRDRPQWVSGKM KQECLQLGTPWP*IIIGQWQYFP RDGMGVRTDFCRIFQRLARMR LCEGCLMNS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21358	51726	A	21486	1	2589	MSPVTLWVRTSSRGEDRCGMC TPGRDTGFAPISGMCSKYRSCTI NEDTGLGLAFTMPMSLDTKHIP NFGKVHGYIMRHHKNEDTIPW RRNTKKEEARGTQPLEADDQN PGWEDGKPGSLENEGRRSHRG NPAPDMPQPPKEDLFILPDEYK SCLRHKRSLLRSHRNEELNVET LVVVDKKMMQNHGHENITTY VLTILNMERILKKTSFTIIHPSA MERCPVLNLQIRDSLWNHCFSL ATTVHRFHPVGRHALKKMYKL PSAYINVSITKYTQRFALTYISC VFHRNAAFVAVPGEGRCCAGV DVPAPMSLRSPGPHWPQEHGA LWISCTVRGMASCLGQLCRVS MRVRANIGKVQKPRLRISNGK GLHTQSELSGSAYLEKGWRGA APGLDSRNEKGTEGARDSGTPG RQSQTLQRGPPGPVPGSSKIAPQ TLTRQGSMTASRKLVLLLPEFC ERTGEQSGQLYPPSPLLVEWV MPAGTSSTVDPLLPELCRRWER QALSLCRLYRQRTSVSIKALCD HTETRSVALSTCQGLECNSSPA RKQNWMENEFEELTEVGFRKS VITKFSKLKEHILTHRKEAKNLE KRLDEWLTRITSVEKSLNDLME LKTTVRK\LHEAYTSFNSRFDQ VEERILVIEHQINEIKQEDKVRE KRVKRNEQSLQEIWDCVKRPN LCLIGVPESDGENGTKLENT\LQ
21359	51727	A	21487	260	1292	RLCAFNKRMTFQFNFTIEDHLE NELTPIRDGALTLDSSKELSVSE SQKGEERDRKCSAEQFDLPQD HLWEHKSMENAAPSQDTDSPL SAASSSRNLEPHGKQPSLRAAK EHAMPKDLKKMLENKVIETLP GFQHVKLSVVKTILLKENFPGE NIVSKSFSSHSDLITGVYEGGLK IWECTFDLLAYFTKAKVKFAG KKVLDLGCGSGLLGITAFKGGS KEIHFQDYNSMVIDEVT\LPNV VANSTLEDEENDVNEPDVKRC RKPKVTQLYKCRFFSGEWSEFC KLVLSSEKLFVKYDLI\LTSETIY NPDYYSNLHQTFLRLLSKNGRV LLASKAHVQRNSLSRL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21360	51728	A	21488	263	1466	RLCAFNKRMTFQFNFTIEDHL\E NELTPIRDG\ALTL\DSSKEL\SVS ESQKGRKE\RDRKCSAEQF\DLP QDHLWGNISSMGKWQAPS\QG HRTSSTSVAASSSRNL\EPHGKT ALLAGAGQRSMAMPKRF*RRC LEN*SPLET\LPGFQHVKLSVVK TILLKENFPGENIVSKSFSSHSDL ITGVYEGGLKIWECTFDLLAYF TKAKVKFAGKKVLDLGCGSGL LGITAFKGASKEIHF\QDYNSMV IDEVTLPNVVA\NS\TLEDGGKM DVKWSPDVEKMPGNPKVTQ\L YKC\RFFS\GEWS*VL*ALYLSSE K\LFVKYDPHSSPSET\IYNP\DY YSNL\HQTFLRLLSKNG\RVLLA SKAHYFGVGGGVHLFQKFVEE RDVFKTRILKIIDEGLKRFIIEITF
21361	51729	A	21489	2	367	
21362	51730	A	21490	2	376	QTYSLRRATPRHIIVGFTKVEM KEKVLRAA/NKPIRLTVDLSAET LQARKEGGPIFNILKEKNFQPRI SYPAKLSFISEGEIKSFTDKQML KDFVTTRPALQELLKEALNME RNNQYQPLQKHAKW
21363	51731	A	21491	1	690	
21364	51732	A	21492	1	714	
21365	51733	A	21493	1	1536	
21366	51734	A	21494	1	765	
21367	51735	A	21495	1	972	
21368	51736	A	21496	1	2670	
21369	51737	A	21497	2	1178	
21370	51738	A	21498	2	827	
21371	51739	A	21499	1	777	
21372	51740	A	21500	168	1057	IRLKNDHDGELRNKTICINRNL AEIKKFSENYENKETMYLNLW DVAKAVLRGQFIALNARIKKLE KSQVYNLISQLKELENQEQTNP KASRRQEITKIRAELKEVETWK TLKKINESGRGVDCSS/DASNGT KPDGE*L**VDKSR/PSEARQAN IHIQEIHGTPQR*SLRRATPRH/II VRFTKVEMKEKMLRAARKKG WVTHKGKPIRLTADLLAETLQ ARREWGPIFNILKEKNFQLRISY PAKLSFIREGEIKAFTEKQILRDF VTTRPALQELLKEALNMERND RYQPLQKHAKL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21373	51741	A	21501	3	1263	GRTIQTKGKEV\ENFEKNLEECI TRITNTEKCLKELMELKTKARE VREECRSLRSQCDQLEERVSAM EDEMNEMKQEGKFREKRIKRN EQSLQEIWDYVKRPNLRLIGVP ESDVENGTKLENTLQDIIQENFP NLARQANVQIQERQRTPQRYSS RRATPRHIIVRFTKVEMKEKMG LLVPNWTNHSPLFRAILFDYKG FCRFGTTHQTGFSPAGANQRGP LAATLSGPGGEGQSAVARLTGL IGVPESDVEKETKLETTLQDIIQ ENFPILARQANVQIQEIQRTPQR YSSRRATPRHIIVRFTKVEMKE KMLRAAREKGRVTLKGKPIRL TADLSAETLQARREWGPIFNIL KEKNFQPRISYPAKLSFISEGEIK SFTDKQMLRDFVTTRPALKELL KEALNMERNNRYQPLQNHAK
21374	51742	B	21502	1	2356	
21375	51743	A	21503	2	484	
21376	51744	A	21504	2	902	ASFFSKKTSGFGGWGAGGPGD PGMGNHGGFRGGFSRGIRGWG HSRGQGPGQGRGAHRGKTKDK EWTSIPKLGHLVKDMKIKFLEEI YLFFLAIKEFEIIDFFLGASLKDE VLKIMPVQKQTHASQRTRLKG FIVIGDYNG/HVGLGVKCSKEV A/TAIRGAIILG*LSIVPMCRGY WGSKIGKPHTVPCKVTGHCGS VLVHFIPAPRGTGIVSVPMP/KK LLLMAGIYDCY/ARSCTATLGN FTKATFDAISKTYSYPTPNLWK ETVFTKSP/YEFRNSGQEFTDYL VKT/HIRVSVQRTQAPAVATT
21377	51745	A	21505	2	407	STISCGGNFPIPRGGSGVASLER AESSSTEPAKAIKPIDRKSVHQI CSGPVVPSLSTAVKELVENSLD AGATNIDLKLKDYGVDLIEVSG NGCGVEEENFEGLTLKHHTSKI QEFADL\LSDVTISTCHVSAKVG
21378	51746	A	21506	362	490	
21379	51747	A	21507	3009	3889	
21380	51748	A	21508	1	504	LDDLHKWFLSSFLLTAISIGIKF LLKIHISRGSGVLLQLLPGNPSP AAHGTEELEPKFLEQGYLRAVL PGPRVHATA*LEPTVTDQGYAR AGLPIQEVEDVLFGVLVVLLHV IGQVAEDRNQVAAQGHHQES/C PAQCWGDCTHLEIAGWRGIRRS DANPRSQRKGFG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21381	51749	A	21509	2	1101	WTERRLGSVRGDRLRERSRPA VNRTPRMSRVPSGAPRGTPSRR WWMMKCWDHQPLG*IPAPHV GPLAG/IRKKEWSDESEEEPEKE LAPEPEETWVVEMLCGLKMKL KQQRVSPILPEHHKDFNSQLAP GVDPSPPHRSFCWKRKREWWD ESEESLEEEPRKVLAPEPEEIWV AEMLCGLKMKLKRRRVSLVLP EHHEAFNRLLEDPVIKRFLAWD KDLRVSDKYLLAMVIAYFSRA GLPSWQYQRIHFFLALYLAND MEEDDEDPKQNIFYFLYGKTRS RIPLVRNRRFQLCRCLNPRARK NRSQIALFQKLRFQFFCSMSGR AWVSREELEENTGPRGDVDFQ QELYSNANGRQQERGEEPFVQI
21382	51750	A	21510	3	918	
21383	51751	A	21511	1	792	
21384	51752	A	21512	3007	3885	
21385	51753	A	21513	615	845	GHTASPPPRSPQAQGRAPSVAP PPTTPQICPTTPSSFSSKRTYAG GWDLPQGQADC*SPCGAQGG WVTLAVASASS
21386	51754	A	21514	357	562	GSSTCGRETERVVLKKRKRSPT HFQYRNSPTAEARPQLE\PTQW GRRSHSPRPSAPLPCSCPQKSRK SV
21387	51755	A	21515	1	1335	
21388	51756	A	21516	537	1164	SSTEPAKAIKPIDRKSVHQICSG PVVLSLSTAVKELVENSLDAGA TNIDLKLKDYGVDLIEVSDNGC GVEEENFEGLISF\TLKHHTCKI QEFADLTEVETFGFQGEALSSL CALSDVTISTCHASVKVGTRLV FDHDGKIIQETPYP\HPRGTTVS VKQLFSTLPVRHKEFQRNIKK\R ACFPFAFCRDCQFPEASP\AMLP VQPAELMAV
21389	51757	A	21517	224	903	GFTWYIGMAQPKQERVARARH QRSETARHQRSETAKTPTLGNR QTPTLGNRQTPRLGIHARPRRR ATTSLLTLLRAFGKKTQS/STEP AKAIKPIDRKSVHQICSGPVVLS LSTAVKKIVGNSLDAGATNIDL KLKDYGMDLIEVSGNGCGVEE ENFEGLSWDSTGVFDHDGKIIQ KTPYPHPRGTTVSVKQLFSTLP VRHKEFQRNIKKPVGEKYMRS VDTQACSCI

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21390	51758	A	21518	2	1321	VKSRAALLGPGA/LSPLEVSRRR PWTERRLGSVRGDRLRERSRPA VNRTPRMSRVPSGAPRGTPSRR WWMMKCWDHQPLG*IPAPHV GPLAG/IRKREWSDESEEEPEKE LAPEPEETWVVEMLCGLKMKL KQQRVSSILPEHHKDFNSQLAP GVNPSPPHRSFCWKRKMEWW DQSEESLEEEPRKVLAPEPEEIW VAEMLCGLKMKLKRRRVSLVL PEHHEAFNRLLEDPVIKRFLAW DKDLRVSDKYLLAMVIAYFSR AGFPSWQYQRIHFFLALYLAND MEEDDEDSKQNIFHFLYRKNRS RIPLLRKRWFQLGHSMNPRARK NRSRIPLLRKRRFQLYRSTNPRA RKNRSRIPLLCKRRFQLYRSMN SRARKNRSQIVLFQKRRFHFFCS MSCRAWVSPEELEENTGPRGD VDFQQELYSNANGRHQAGGEE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21391	51759	A	21519	1	2654	RSACGSPAWNFPSPRGGSGVAS ME\RAESSSTEPAKAIKPIDQKS VHQICSGQVVLSLSTAVKELVE NSLDAGATNIDLKLKDYGVDLI EVSDNGCGVEEENFEGLTLKH HTSKIHEFADLTQVETFGFRGE ALSSLCALSDVTIFTCHASAKV GTRLMFDHNGKIIQKTPYPRPR GTTVSVQQLFSTLPVRHKEFQR NIKKEYAKMVQVLHAYC\SFQ QASV*VAPISLDK/RKRQPVVCT GGSPSIKENIGSVFGQKQLQSLI PFVQLPPSDSVCEEYGLSCSDA LHNLFYISGFISQCTHGVGRSST DRQFFFINRRPCDPAKVCRLVN EVYHMYNRHQYPFVVLNISVD SECVDINVTPDKRQILLQEEKLL LAVLKTSLIGMFDSDVNKLNVS QQPLLDVEGNLIKMHAADLEK PMVEKQDQSPSLRTGEEKKDV SISRLREAFSLRHTTENKPHSPK TPEPRRSPLGQKRGMLSSSTSG AISDKGVLRPQKEAVSSSHGPS DPTDRAEVEKDSGHGSTSVDSE GFSIPDTGSHCSSEYAASSPGDR GSQEHVDSQEKAPETDDSFSDV DCHSNQEDTGCKFRVLPQPTNL ATPNTKRFKKEEILSSSDICQKL VNTQDMSASQVDVAVKINKKV VPLDFSMSSLAKRIKQLHHEAQ QSEGEQNYRKFRAKICPGENQA AEDELRKEISKTMFAEMEIIGQF
21392	51760	A	21520	238	413	
21393	51761	A	21521	288	467	
21394	51762	A	21522	1	3038	MDVGWDLGEDCWQEHLHTAF SFDCWPCSQNGDRVPSVNPVG GGAPRSYLQVASAECWAAAPA VHVGEPVHAGGLHTERGADPV IGLYLVHRGGACQTPTVGNRQ TPTLGIHARPRRRATTSLLTLLL AFGKNAVRTEPAKAIKPIDRKS VHQICSGPVVPSLSTAVKELVE NSLDAGATNIDLKLKDKESGL\I KVQANEWGVKEETSKGLLLKH HTSKIQEFADLPQVETFGFRGE ALSSLCALSDVTISTCHV
21395	51763	A	21523	34	256	ETGPPGSAPGRLEFTNIKRVVVP QERVELETLLVSYFSPRTPRRTP PPFPHPCS*EDNVITVFSSIKNGP GSSR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21396	51764	A	21524	727	2953	HVSGYDDVPLGTLSLDIWPPAL FSVVSFAAFFFTPPIEAVLKSFSC LLVWYIGMAQPKQERVARARH QRSETARHQRSETA/KTPTLGN RQTPTLGNRQTPRLGIHARPRR RATTSLLTLLRAFGKKTQS/STE PAKAIKPIDRKSVHQICSGQVVL SLSTAVKKIVENSLDAGATNID LKLKDYGMDLIEVSGNGCGVE EENFKGLTLKHHTSKIQEFADL TRVETFGFRGEALSSLCALSDV TISTCHVSAKVGTRLVFDHDGK IIQKTPYPHPRGTTVSVKQLFST LPVRHKEFQRNIKKAQR/PQAR/ CYRCS*PNVSPGPGMAAASTLS A*PRSQSSYFISCKA/EDNAICPI AEQKAEGKFSSRYRNHDSAEN RRDGSMTRPRTDWTLKRACTE KRRPQHASSFEWRGHSLCWDR EQRDAETLKMLLDSGLSVQKK TKDRTETRFGEMGQILGKIMMS HQPQPQEEQSPQRSTSGYPLQE VVDDEVSGPSAPGVDPSPPRRS LGWKRKRECLDESDDEPEKEL APEPEETWVAETLCGLKMKAK RRRVSLVLPEYYEAFNRLLEDP VIKRLLAWDKDLRVSDKIPSEP TILGASPKTLPPASRICIRPSNTP PPRNFHMSTVTPMLSYLANDM EEDDEAPKQNIFYFLYEETRSHI PLLRELWFQLCRYMNPRARKN CSQIALFRKYRFHFFCSMRCRA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21397	51765	A	21525	1054	2349	SCPQIIFLSSCLQVASAECWAAA PAVHVGEPVHAGGLHTERGAD PVIGLYLVHRGGACQTPT\IGSR QTPTLGIHARPRRRATTSLLTLL LAFGKNAVRCALIGPGSLTSRT RPLTEPLGEKERREVFFPPRPER VEHNVESSRWEPRRRGACGSR GGNFP\SPRGG\SGVASLERAES SSTEPAKAIKPIDRKSVHQICSG PVVPSLRPNAVKELVENSLDAG A\TNVDLKLKDYGVDLIEVSG\ NGCGVEEENFEGL/TSLSALKH HTSKIREFADLTRVETFGFRGE/ AL*ASLCALSDVTISTCHVSAK\ VGTLTGVFDHDGKIIPENPPNPH PRGTTVSVKQLFSTLPV\RHKEF QRNIKKKRA\CFPFAFCRDCQFP EASPAMLPVQPAELTPR\STP\PH PCSLEDNVITVFSS\VKNGPGSS KMICTNGSSPSS
21398	51766	A	21526	2	393	
21399	51767	A	21527	2	165	
21400	51768	A	21528	3	196	
21401	51769	A	21529	1	411	
21402	51770	A	21530	1	1727	GPQGVGRMAEGKAGGAAGLF AKQVQKKFSRAQEKVLQKLGK AVETKDERFEQSASNFYQQQA EGHKLYKDLKNFLSAVKVMHE SSKRVSETLQFIYY\SEWYGHEE LKAIVWNNDLLWEDYEEKL\A DQAVRTMEIYVAQFSEIKE\RIA KRGRKLVDYDSARHHLEAVQN AKKKDEAKTAKAEEEFNKAQT VFEDLNQELLEELPILYNSRIGC YVTIFQNISNLRDVFYREMSKL NHNLYEVMSKLEKQHSNKVFV VKGLSSSSRRSLVISPGVRTATV SSPLTSPTSPSTLSLKSESESVSA TEDLAPDAAQGEDNSEIKELLE EEEIEKEGSEAGSSEEDDPLPAC NGPAQAQPSPTTERAK\SQEEV LPSSTTPSPGGALSPSGQLSSSA TEVVLRTRTASEGSE\RPKKTAS IQRTSAPPRRPPPPRATASPRPCS GNIPSSPTASGGGSA\TSPRASL GTGTASPRTSLEI*PNPE\PPEKP VRTPEAKENENIHNQNPEELCT SPTLMTSQVASEPGEAKKMED KEKDNKLISADSSEGQDQLQVS MVPENNNLTAPEPQEEVSTSEN
21403	51771	A	21531	1	1530	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21404	51772	A	21532	499	1587	HPRDPEAPSGPLWSASLPALYS QGHANEFDGSNSTSHAVLVLV QKHIKAVLSNKLCLSTSSLVQG VNAHLGTLIWPQPRGYLSPRSA IPWFSVPTVTSGLHFPWEVQ*LF LLSCWGKAHQSLPQRMPPLLC CQGMWVPEGSMATVGLSQQLF DSALLLLQKAGALNLDITGQLR SDDNLLNTSALGRLIPEVARQF PEPMPVVLKVRLGATPVAHGS TQTTATLRPASPFVGGSWATGP PNSAFPSPSSP/CLVVVNLRTPAS L/SSKGEALREHVCAWWMSQL TVASSNVGFIDTDQVRTLMGTV FEKPLLDHLNGSLGHGELPSLV WVNLHYVAPEIFVYEGYVVISS GTLLPEPEAKTTGRP
21405	51773	A	21533	1385	3111	IAPSEVKEHKMVLEMLNPIHYN ITSIVPEAMPAATMPVLLLTGLF LLVWNYEGTSSIPGPGYCMGIG PLISHGRFLW\MGIG\SACNYYN RVYGEFMRVWISGEETLIISKSS SMFHIMKHNHYSSRFGSKLGLQ CIGMHEKGIIF\NNNPELWKTTR PFLYERLCHAPASVRMVTVCA ESLKTHLDRL\EEVTT\ESGLCG TCLTLLRRVHGWDTSNTVFL\G IPL\EESAIVVKIQG\YFDAWQAL LIKPDIFFKISWLYKKYE\KSVK DL\KDA\IEVLIAEKRRRISTEEK LEECMDFATELILAEKRGDLTR ENVNQCILEMLIAAPDTMSVSL FFMLFLIAKHP\NVEEAIIKEI\QT VIGERDIKIDDIQKLKVMENFIY ESMRYQPVVDLVMAQSL*EG* C*SMGYPV\KKGTNIYSWNIG\R VHRL*FFPKPNEFTLENFAKNV PYRYFQPFGFGPRGCAGKY/LS AMVMMKAIL\VTLLRTDST*RT LPGTSVFESIQEGYTTCPWHPD\ ETKNML\EMDLYPKETSDRCLG TLRRKAGQYLTLGAFSPSVCSP TNHPILCPLVFILHSGTLSGPMA
21406	51774	A	21534	129	378	IVCKFSVSTHKNIRAKKPDERLP ECGTQIRKDTLKRVRRTVLHYL C\PPPSVPEIPAWR\GDCSP/VGK EGKCTPDLNPNIELRPV

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21407	51775	A	21535	1	474	MQKQIISVTEVEWYPKYNSNM KEYWSTQNHQFEQLSTHKNIR AKKPDERLPECGTQIRKDTLKR PCPLDRPLWPHITAEQGSKPST WPAPCDP/IF*ANIHLPSLHTGPC RSKVQAHSSRPGCQASSTCVPR LQDLPC*PRFRLTLVDQDARPA APVYQGSRTYPADPDSRPAPVD SGCIISGQADW
21408	51776	A	21536	2	325	
21409	51777	A	21537	2	1011	WAFSITERREFQVYYNSCPSSS WIGDARAFSPPDPTGLYPIYSQ DTQTFRLWLNYNTDFPGSPAC KWQAMELLSPQSPFRVDRGEH LPFLVKGARYTLVPAGQEGAL AAWLEALRGQLGRRGAVVSM MDAEGLERSSPDCAMGLSDGE WQLVLN\VWGKVEADIPGHG\Q EVLIRLFKGHPETL\EKFDK/FTR HLKSED\EMKASED\LKKHMCH TVLTP\LGVHILRE\KGHH*RQR FKPLGTSSHCHPSTKIPPLKVTL EFHLPGIAFIQVLAEQAIPGDFG\ AECPGAQLKQRPWELF\RKNNG LPTYKEAGAFQGARALAGFPTP THLGPPGFKKRAGV
21410	51778	A	21538	157	322	
21411	51779	B	21539	1	975	
21412	51780	A	21540	218	388	RKLPLAGLPCINRQHS*SNVNIC FLTPV*KIQN*LQSEQFLPYPTIV IITLCFFAV
21413	51781	A	21541	663	933	GCAGPCLVNQMFGKQYYLGKS HHP\SLVSLNRGAHCTVGKPQG PSGP*KLGYYFKVFPPCG*FWK YGPSWGMEERAWTGSPLGPGP PLKKV
21414	51782	A	21542	389	1033	NQGLRNLGLCRTCLVNKMFTS SILGKSHRHSLVSINQGNNALW KAAG\PLPLKAGYC\QGFSPCHS LKYG\SWDEKDLTVPQPDTLKG SVLRWISKRGKPLAVEIEEGHC L\CLPLGTECLGIK/PPIVHLFNSE IGE\NRPYGGR*DMFCSNGCLG* FL*LPLRCLG\GEKHKSGL/HVHI PVIVPPLELNYDIDSFAHMFF\V DLS\LIITLLSCYIPFC
21415	51783	A	21543	82	163	
21416	51784	B	21544	1	211	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21417	51785	A	21545	71	1086	NMNLSLVLAAFCLGIASAVPKF DQNLDTKWYQWKATHRRLYG ANEEGWRRAVWEKNMKMIEL HNG/EKYSQGKH\GFTMAMNA FGDMTNEEFRQMMGCFRNQKF RKGKVFREPLFLDLPKSVDWR KKGYVTPVKNQKQCGSCWAFS ATGALEGQMFRKTGKLVSLSE QNLVDCSRPQGNQGCNGGFMA RAFQYVKENGGLDSEESYPYV AVDEICKYRPENSVANDTGFTV VAPGKEKALMKAVATVGPISV AMDAGHSSFQFYKSGI\YF*PDC ISKNLDQGVLVVGYVFEGANS NNSKYWLVKNSWGP\EWGS\N GYVKIAKD\KNNHCGIATAASY
21418	51786	A	21546	170	412	LWLSFLLMHWH*IPLAAVSVFT VSN/PILDFS*IQLKTPKHFGNLG NTGFLGKQLRLLLRSLVSVSRL HCLLGYRRTQMPPL
21419	51787	A	21547	1	753	
21420	51788	A	21548	125	464	TAVFLTQSLFGGLFTRTRMKFG TMTRI/RGDLPWEINPLSSCSLL HEKDPPTTSGPQTNQPKKHLTN FKSRKVERTKGLLKTHLTKLSH QLKKAWTILLPLSLLRIQACPR NAT
21421	51789	A	21549	1	753	
21422	51790	A	21550	291	671	
21423	51791	A	21551	10	453	TALLLTQSLFGGLFTRTRMKFG AMTRIG\DLPWEINPLSSCSLLC EKHPPTTSGPQTDQPKKHLTNF KSETKETCFIHEPKTLAPVTDW EGSLPLVFNHCRDGLSDHSATF QGCQTMQGCLPWSFTLSGKSR FPGAGASTPQPLLLHP
21424	51792	A	21552	740	1010	TAMLLKQSLFGCLFTRTRMKF GAVTRIG\DLP*ETNPLSSCSLLR DKDPPTTSSPQTHQPKKHLTNF KSGCSSPGRARSQSFLSLCSSTL
21425	51793	A	21553	134	358	TAMLLTQSLFGGLFTRTRMKFG AVIRIG\DLLWEINPLSSCSLLHE KDPPTTSGPQTDQPKKHLTNFK SSCSSPG
21426	51794	A	21554	392	645	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21427	51795	A	21555	1	1900	MQNALESLSNRIEQVEERNSEL EDKFFELTQSNKDKEKRIRKYK QSLKEVWDYVKGPNLRIISVPE EEENSKSLENIFGEIIEENLPSLA RHLDNQIQEAQRTLWKLIAKRS LPRHIVIRLSKVKTKERILRAVR QKHQVTHLTCKESYKLKVKG WKRHFMQMDTKNEQGIKNEN HLIISIDVEKASDKIQQRFMIKTL SKIGIQGKYLNVIKAIYDKPTAN ITLNREK/LESIPSEKLKAFPLRT GTRQGCPLSPLFFNTVLEVLAR AIRQEKEIKGIQIGKEEVKLSLF ADDMIMYLENPKDSSRKLLEWI KESNKVSGYKTHVHKSVALLY TKQ*\QAENQIKNRNPFAIAAKK KKKKKKKKKRNSRIYLTKESK DLYKENYKTLLKEIIDNMNKW KHIPCSWMGRISIVKKL*\LQKA IYKLNAILIKIPPLLFTELEKTILK FIWKSNKS\RIAKVILSKKNKSG GITLPDFKLYYTIRKINSKWIKD LNLRPETIQILEDNIGKTLLEIGL GKDFMTKNPKANAKKKTKINR WDLIKLKSFCTAKGTVSRVKRT HRVGENLPHYTSIHPTIYTIYTS DKGLISRIYNEFKQIVTRTTCVF LHPPHPKAKTTSYGDQLLGGN
21428	51796	C	21556	10	339	
21429	51797	B	21557	97	1458	
21430	51798	A	21558	1	387	
21431	51799	A	21559	3	604	GSVIAYYWSEFSIPQHLVEEAE RVMAEERVFMLPPRARSLKSFV VTSVVAFRESEGQGWAWDWPP FHGVGLGPGPLQGTGTPRAQCP REKTTCWPGTSL*IIRKQE*GNG LYQEMLYSPSYSSATDSKTVQR TQDNSCSFGLHARGVELMRFTT PGFPDSPYPAHARCQWALRGD ADSVLSLTFRSFDLASCDEARS DLV

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21432	51800	A	21560	1000	2084	FRGTPVQRGGGWADLPGRCGE LGRRLRSEEQARRVHKAPS/DF GTG/LKENTGKVNGLEEGVEFL PVNNVKKVEKHGPGRWVVLA AVLIGLLLVLLGIGFLVWHLQY RDVRVQKVFNGYMRITNENFV DAYENSNSTEFVSLASKVKDAL LYSGVPFLGPYHKESAVTAFM WVWREGSVGCTPDWLGVGSG YSVWGTKREMVLEVLDWRAK EGPRCVLLEGSVIAYYWSEFSIP QHLVEEAERVMAEERVVMLPP RARSLKSFVVTSVVAFPTDSKT VQRTQDNSCSFGLHARGVELM RFTTPGFPDSPYPAHARCQWAL RGDADSVLSLTFRSFDLASCDE RGSDLVTVYNTLSPMEPHALV
21433	51801	A	21561	3	2820	TGALILQKGEIRVINQTTCENLL PQQITPRMMCVGFLSGGVDSC QVPPGQEGGRQFPLKETNNRK GRLPKRLRPHTWCCYSLECSSY SLRCTEDTWTEDQKVNGLEEG VEFLPVNNVKKVEKHGPGRWV VLAAVLIGLLLVLLGIGFLVWH LQYRDVRVQKVFNGYMRITNE NFVDAYENSNSTEFVSLASKVK DALKLLYSGVPFLGPYHKESAV TAFSEGSVIAYYWSEFSIPQHLV EEAERVMAEERVVMLP
21434	51802	A	21562	111	465	
21435	51803	A	21563	2	197	
21436	51804	A	21564	359	405	EMQSRED*RK*YL*RIVNCVPL RERLGYVCGGLGERSKEGTLWI YQGLQKSQDTGRV
21437	51805	A	21565	208	287	IVSRSEKGWVMYVEGWEREAR REHYGYIKGYKNHRIHMMQSS KALV*LEDLRKHI*IFRCVFSNP QVILML
21438	51806	C	21566	141	305	
21439	51807	A	21567	170	973	RMAACRALKAVLVDLSGTLHI EDAAVPG\AQEALKRLRGASVII RFVTNTTKESKQDLF\KRLRKL G\FDISEDEIFTSL\TAARSLL*\R KQVTPMLLVD*SGHYLIFKGIQ TSDPN\AVVMGIGTRTFSLSKF WNQAFRLLLGWSTSDSNSQSQ GFQEFKMGLALGPWTIL*LL*K YATDTKATVVGKPEKTFFLGSI AGHWLLNLEEAVMIG\DDCRG\ DVGGAQDVGMLGILVKTGKYR ASDEEKINPPPYLTCESFPHAVD

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21440	51808	A	21568	42	211	
21441	51809	A	21569	92	366	AGSEMRPGLTWACSLARLLLSP SFIKHWFLESCLLSCSRSGSGYA QWCPPHQSASAAGHCQTPAHA QAYLSSPPQMDHSSVRSLLEAC QTY*SASAAGHCQTPAHAQAY LSSPPQMDHSSVRSLLEACQTY
21442	51810	A	21570	1	834	
21443	51811	A	21571	3	835	
21444	51812	A	21572	1	1649	MPIVLVDWSDIREQKRLMVLR ASVALHGRSVTLYEKAFPLSEQ CSKKAHDQFLADLASILPSNTT PLIVSDAGFKVPWYKSVEKLG WYWLSRVRGKVQYADLGAEN WKPISNLHDMSSSHSKTLGYKR LTKSNPISCQILLYKSRSKGRKN QRSTRTHCHHPSPKIYSASAKEP WVLATNLPVEIRTPKQLVNIYS KRMQIEETFRDLKSPAYGLGLR HSRTSSSERFDIMLLIALMLQLT CWLAGVHAQKQGWDKHFQAN TVRNRNGSLLTNWPSVPPTIKE EENSEEELAAATTSKEQEPIGTD LDAVRTPEPLEEFPKREDQEGS PPETSLPYKWVVEAANLLIPAV GSSLSEALDLIESDPDAWCDLS KFDLPEEPSAEDSINNSLVQLQA SHQQQVLPPRQPSA\LVPSVTEY RLDGHTISDLSRSSRG\ELIPISPS TEVGGSGIGTPPSVLKRQRKRR VALSPVTENSTSLSFLDSCNSLT PKSTPVKTLRFS\PSQ\FLNFWN KQDTLELESPSLTSTPVCSQKV VVTTPLHRDKTPLHQKHAA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21445	51813	A	21573	59	2384	PRPGSRSGLCRRAGERGAVRAG GMSRRTRCEDLDELHYQDTDS DVPEQRDSKCKVKWTHEEDEQ LRALVRQFGQQDWKFLASHFP NRTDQQCQYRWLRVLNPDLVK GPWTKEEDQKVIELVKKYGTK QWTLIAKHLKGRLGKQCRERW HNHLNPEVNKSCWTEEEDRIIC EAHKVLGNRWAEIAKMLPGRT DNAGKNHWNFTIQK/RKGDTG GFLREYKD*KPPVYLPL\ELEDK DGLQSAQPTEGQRSLLTNWPSV PPTIKEEEN\SEEELAAATTSKE QEPIGTDLDAVR\TP\EPLEEFP\K REDQEGSPPETD/SLPYKWVVE AVNLLIPAVVS\SLYEALDLIGS\ DPDAWCDLSRFDLPEEPSIEDSI NNS\LVQLQAS\HQQQILPPRQP SA\LVPSVTEYRLDGHTISDLSR SSRGELIPISPSTEVGG\SGIGTPP SVLKRQRKRRVALSPVTENSTS LSFLDSCNSLTPKSTPVKTLPFS PSQFLNFWNK\QDTLELESPLA DYPPQVCSQKVVVTTPLHR\DK TPLHQKHA\AFVTPDQKYSMD NTPHT\PTPFKNALEKYGPLKPL PQTPHL\EEDLKEVLRSEAGIELI IEDDIRPEKQKRKPGLRRSPIKK VRKSLALDIVDEDVKLMMSTL PKSLSCRTTAPSN\SST\LTLSGIK EDNSL\LNQGLLAGPSPRKAAC VPEGPESHFHGQLAPYVPVPGK
21446	51814	A	21574	190	889	SLPRRLESPGRLAMAARGVIAP VGES/LCRYAEVPCSPSAKRPDA DVDQQRLVRSLIAVGQGVAAL AFAG\RYAL\RIWKPLE\QVITET AKGRFQTPRFSSY**GG/FLNII* LRREA\GLILGVSP\SAGKAKIRT \AHR\RVMILESPQIKGGSPYVA AKINEAKD\LLETTTKRLMLKD HTEGKKNEGTSKKKKSPAKYS KTWSFLIFYMGFDHSLIFRPLSC ITNKMLIVLLFIIF

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21447	51815	A	21575	2	652	EGYIC/RHFTGSSALLTRTHITY GVIANVAVVRINSPNS\RMLAA CKTLQEVTQLSQEAQRIVEKLE KSTKPIVAAINGSCLGGGLEVAI SCQYRIATKDRKTVLGTPEVLL GALPGAGGTQRLPKMVGVPAA LDMMLTGRSIRADRAKKMGLV DQLVEPLGPGLKPPEERTIEYLE EVAITFAKGLADKKISPKRDKG LVEKLTAYAMTIPFVRQQVY
21448	51816	C	21576	98	316	
21449	51817	A	21577	35	247	
21450	51818	A	21578	1	2391	LQLKMVACRAIGILSRFSAFRIL RSRGYICRNFTGSSALLTRTHIN YGVKGDVAADRINSPNSK\VNT LSKELHSEFSEVMNEIWASDQI RSAVLISSKPG\CFIAG\ADITML AACK\TLQ\EVTQLSQE\AQR\IV EKP*KSPQSLIVGCPSNGSCLGR RTLRLPISSPQYRIATK\DSKTVI *VPPE\VFLGGPLPGRQGGHTK GCPKMGGVCLPAFGHECLTGR SIR\ADRAK\KMGLVD\QLVGTP GTQGLKPPEERTIEYLEEVAI\TF AKGLADKKISPKRDKG\LVEKL TA\YAMTIPFVRQQVYKKVEEK VRKQTKGLYPAPLK IIDVVKTG IEQGSDAGYLCESQKFGELVMT KESKALMGLYHGQVLCKKNKF GAPQKDVKHLAILGAGLMGAG IAQVSVDKGLKTILKDATLTAL DRGQQQVFKGLNDKVKKKAL TSF\ERDSIFSNLTGQLDYQGF* KRPDMGELKAVF\EDP*SLSHR VLKGKVGSR*FPDHWYSLPSNT SALPISEIAAVQQKT*EG*LGMH YF\SPVDKMQLL\EIITTEKTSKD T\SASAVA\VGLKQGK\VIIV\VK DG\PGLLVTYQGVFAPMMS\EVI RILQEGS/VDPKKLGFPWTTSFG F\PVG\AATLV\DEVGCGMLAK HV\AEDLGKVFG\ERFGGGNPE L\LTQMVSKGFLG\RKSGEGLLT SSGRVVKRKILNSTMD\SI*ASL
21451	51819	A	21579	119	387	VEDSKEIFSSA*DYLSTHSKHVP ASHESYHVNPNLCNPVAPTSGA HSIV*KWPSWLGTVAHSCNPSN FGRPRRADCLSSRSSRPAWPTR
21452	51820	B	21580	73	3177	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21453	51821	A	21581	1399	5140	SGEPERALRGAAMRPSGTAGA ALLALLAALCPASRALEEKKVC QGTSNKLT\QLGTFE\DHFPQPS QRMF\NNCEVV\LGNLEITLCER NYDLSFLKTI\QEVAGYVLIALN TVERIPLENLQIIRGNMYYENSY ALAV\LFNYDANKTGLKELPMR NLQEILHGAVRFSNNPALCNVE SIQWRDIVSSDFLSNMSMDFQN HLGSCQKCDPSCPNGS\CWGAG EENCQKLTKIICAQQCSGRCRG KSPSDCCHNQ
21454	51822	B	21582	82	305	
21455	51823	A	21583	122	219	YAKRIYDVYYVHTAYTCTFHA *KIRGMTQ*NW
21456	51824	A	21584	404	1228	GLAAFLARARGRRRKELPGSPR PLPQLPAGGPSPRWRAMRPSQR RPPTLPMAASPAHWPRESLVLY HWTQSFSSQKVRLVIAEKGLVC EERDVSLPQSEHN/EMPWFMRL NLGEEVPV\IIHRDNIIQ/CTMDQ IHLTMWERTFHRERHVGALMP EVGSRAA\PRVLQY\RELLDALP MDAYTHGCILHPELTTDSMIPK YATAEIRRHLANATTDLMKLD HEEEPQLSEPYLSKQKKLMAKI L\EHDDVSYLKKILGELAMVLD QIEGGAGRKRKLENE
21457	51825	A	21585	3	1194	KNLSVKLSENGTLKNCVVADS ETDIDVYMYTRVYVYIPRIENS WNDTIKLVTGATISAVGGDIDA QGEWAFPLLGIPSLSPGPEWKV RVVIPDKGLVCEERDVSLPQSE PKEPWFMRINLGEEVPVIIHRD NIISDYDQIIDYVERTFTGEHVV ALMPEVGSLQHARVLQYRELL DALPMDAYTHGCILHPELTTDS MIPKYATAEIR/SDI*PNATTDL MKLDHEEEPQLSEPYLSKQKKL MAKILEHDDVSYLKKILGELA MVLDQIEAELEKRKLENEGQK CELWLCGCAFTLADV\SLGATL HRLKFLGLSKKYWEDGSRP\NL QSFFERVQRRFAFRKVLGDIHT TLLSAVIPN\AFRLVKRKPPSFFR ASFLMGSLG\GMGYFALHGTSR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21458	51826	A	21586	1	929	MDPSIYFLPSKREGHLQAYIRDS VPEDPLILIFFSASSDQRPWLKA PHLPALRGFRGGGAGGGAQSR TTEDYVAWAKGNSPTSPSPRSR GGCSAKLSGPRRPPRRPGRLFN MAASANSVSRAWRTESPEGLE SLHSTSLSAISVSRPEGGAELSD TADTMGFGDLKSPAGLQV\PTI TWRTRATSRGMCHHKQMWQY LKPCPAHRLPTCVMPYV/GYNH IKSYEKEKASLPGVKKALGKYG PADVEDTTGSGATDSKDDDDID LFGSDDEEESEEAKRLRE/DTSC TI*IKESQKTCTCCQVFHLTRCE
21459	51827	A	21587	1	2405	MALRVVRSVRAVLCSLHVACE KVGMQIPRFCYHERLSVAGNC RMCLVEIEKAPKDQSMMFGND RSRFLEGKRAVEDKNIGPLVKT IMTRCIQCTRCIRFASEIAGVDD LGTTGRGNDMQVGTYIEKMFM SELSGNIIDICPVGALTSKPYAFT ARPWETRKTESIDVMDAVGSNI VVSTRTGEVMRILPRMHEDINE EWISDKTRFAYDGLKRQRLTEP MVRNEKGLLTYTSWEDALSRV AGMPPALALQSAEIAASARPPP RLGSEEPLCLAAHRLGCEEPLC LAASLESEERLCPAAIPPGNLRY VFISSAKTDKYSKLAPVEWVTV EKVPENVEVTLELGNRQSRDR VSRIPGNAIVIWFTGFKWKKTV TTLWFLNLAIADFIFLLFLPLYIS YVAMNFHWPFGIWLCKANSFT AQLNMFASVFFLT/GDQPGPLY PLDPSCLISSASNPQELSDCHYI HLAFGFSNWRSCPVLPGHCGV Q*SYSLL*QFSEA*S*PHFDQAP CSDLGEIYHWLSLPFANNEYLL LVSHLQGEEAKHPDLQ*AFLDN SGCGCGLCGLLDSLSPV*HLGA HHSPQ*LFPPCDAGWNPPLHWF GIPQ*LLEPHPLCPN**EVPSSLP VLSC*DTQVHTVGSQLFW\QVL KEAKKPMVVLGSSALQRNDGA AILAAVSSIAQKIRMTSGVTGD WKVMNILHRIASQVAALDLGY

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21460	51828	A	21588	1	2065	MLRIPVRKALVGLSKSPKGCVR TTATAASNL\IRVFVDGQSLM\V EPGTTVLQACE\RIGMQIPRFCY HERLSVAGNCRMCLVEIEKAPK DQSMMFGNDRSRFLEGKRAVE DKNIGPLVKTIMTRCIQCTRCIR FASEIAGVDDLGTTGRGNDMQ VGTYIEKMFMSELSGNIIDICPV GALTSKPYAFTARPWETRKTES IDVMDAVGSNIVVSTRTGEVM RILPRMHEDINEEWISDKTRFA YDGLKRQRLTEPMVRNEKGLL TYTSWEDALSRVAGMLQSFQG KDVAAIAGGLVDAEALVALKD LLNRVDSDTLCTEEVFP\TAGA GTDLRSNYLLNTTIAGV\EEAD VVLLVGTNPRF\EAPLF*C*EFR KSW\LHND\LKVALIRAVPVDL\ TYTYDHLG\DSPKILQ\DIASGK/ SHPFSQVLKEAKKPMVV\LGSS ALQRNDGAAILAAVSSIAQKI\R MTSGVTGDWKVMNILHRIASQ VAVL\DLGYKPGVEAIRKNPPK VLFLLGADGGCITRQDLPKDCF IIY\QGHHGDVGAPIADVILPGA AYTEKSATYVNTEGRAQQTKV AVTPPGLAREDWKIIRALSEIAG MTLPYDTLDQVRNRLEEVSPNL VRYDDIEGANYFQQANELSKL VNQQLLADPLVPPQLTIKDFYM TGEVTEINEALAENPGLVNKSR YEDGWLIKMTLSNPS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21461	51829	A	21589	56	2352	ATRPPRGSSWCRQFSRTASAAP GRSNMLRIPVRRALVGLSKSPK GCVRTTATAASNLIEVFVDGQS VMVEPGTTVLQACEKVGMQIP RFCYHERLSVAGNCRMCLVEIE KAPKVVAACAMPVMKGWNIL TNSEKSKKAREGVMEFLLANH PLDCPICDQGGECDLQDQSMM FGNDRSRFLEGKRAVEDKNIGP LVKTIMTRCIQCTRCIRFASEIA GVDDLGTTGRGNDMQVGTYIE KMFMSELSGNIIDICPVGAL\TS KPYAFTARPWETRKTESIDVMD AVGSNIVVSTRTGEVMRILPRM HEDINEEWISDKTRFAYDGLKR QRLTEPMVRNEKGLLTYTSWE DALSRVAGMLQSFQGKDVAAI AGGLVDAEALVALKDLLNRVD SDTLCTEEVFPTAGAGTDLRSN YLLNTTIAGVEEADVVLLVGTN PRFEAPLFNAWIRKSWLHNDLK VALIGSPVDLTYTYDHLGDSPK ILQDIASGSHPFSQVLKEAKKP MVVLGSSALQRNDGAAILAAV SSIAQKIRMTSGVTGDWKVMNI LHRIASQVAALDLGYKPGVEAI RKNPPKVLFLLGADGGCITRQ\ DLPKDCFIIYQGHHGDVGAP\IA DVILPGAAYTN\KSATYVNTEG *ASASIMLAVTT\PGLSREDW\KI IRALSEIAGMT/LFPYDTL/DIQV RNQIGKKSSPNLV\RYDDIEG\A
21462	51830	A	21590	246	761	MRLQGAIFVLLPHLGPILVWLF TRDHMSGWCEGPRMLSW\CPF LQSLICLLQTAI\YSVVG*VLVS HTWPWYPMGWEQVLYI*ITYA VQLTISWTVLVLFFTVHNPGLV RHTVLSSRSNVGEGETTWLQK HILAALLLLPYLAWLTVTSALT YHLWRDSLCPVHQPQPTEKSD
21463	51831	A	21591	1	1497	
21464	51832	A	21592	1	1731	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21465	51833	A	21593	1	6626	PRSLCFSLWAEAAVLADGGLR RRRRLLRGTMSASFVPNGASLE DCHCNLFCLADLTGIKW*KYV WGGPTSAPILFPVTEEHPILSSSS RCLTAHVLGVRRRDQRPERRE\ L*IFWWGEDP\VLLTLFTMTYQ KKKMECGRMDFPMNAVLCFS KAVHNLLERCLMNRNFVRIGK WFVKPYEKDEKPINKSEHLSCS FTFFLHGDSNVCTSVEINQHQP VYLLSEEHITLAQQSNSPFQVIL CPFGLNGTLTGQAFK
21466	51834	A	21594	1263	1906	AVRGMVRNARAVLKTGGTFLS PALEPLVAGGSGG/EFSQLGAEE RKAIARF/AIDHVDRRVPVLIGT GG/TNARETIELSQHAQQAGRT ASTIDSVAHLRSMIHTVK/GAHP HFTVLCGYDDHLF/NTLLLGGD GAISASGNFAPQVSVNLLKAW RDGDVAKAAGYHQTASIPDQLI HPYESRLFKCQHVLTRGITSF*L LCPPGSLRRQGISTYHSLLHN
21467	51835	B	21595	113	484	
21468	51836	A	21596	300	780	KSGTNETIRRKARGGKIK\MDD LRG\PRCQ*EPWKRLLMTIMPS CLHLWAQNTTVSILSFVDKDLL EPGCSVLLNHKVHAVIGVLMD DTDPLVTVMKVEKAPQETYAD IGGLDNQIQEIKESVELPLTHPE YYEEMGIKPPKGVHPFGPTWPR VKPFCPRQ
21469	51837	A	21597	2	840	AIEHCQSGDNPESRRGFLLQQW LGRNPALVPHPGRTGHSQPPVT FHRHPSDCQRSPAGRFKGGPSH RGQPPPFHKSPPMTTASHLARC ARTYHQ\DSEAAINR\QINLE\LY ASYVY\LSMSYYFDRD\DVALK NF\AKYFLHQSHEER\EHC*ENL MKACRTNEGWPNLSFQDIKET KTCDD\WESGLNA\ME\CALHFE KKC*IKSLLEL\HKL\ATDKN*PP ICVDFI*DTFTLNEQ/V*KAIKRI WGDH/V*PKLWRKMGSAPNLG FGEYLF*QSTPWGDSDNES
21470	51838	A	21598	3	390	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21471	51839	A	21599	1	483	FQLEVTPQNITLNPGFGGPVFS WRDQAVLRQDGVVVTINKKR NLVVSVDDGGTFEVVLHRVWK GSSVHQDFLGFYVLDSHRMSA RTHGLLGQFFHPIGFEVSDIHPG SDPTKPDATMVG\LQKDYSKDP WHGAEVSCWFIHNNGAGLIDG AYTDYIVPDIF
21472	51840	A	21600	1	1521	
21473	51841	A	21601	1	837	
21474	51842	A	21602	3	310	EVRANLSSQALRMWLDYGFVT PLTSMSIRGMADQDGLKPTIDK PSEDSPPLEMLGPRRTFVLSALQ PSPTHSSSNTQRLPDRVTGVDT* VVT*PYVLCWNLC
21475	51843	A	21603	62	462	MPLPLPSAFVLSALQPSPTHSSS NTQRLPDRVTGGFSVNGQLIGN KARSPGQ\HDGTYFGRLGIANP ATDFQLEVTPQNITLNPGFGGP VFSW\RDQAVLRQDGVVVTI\N KKRNLVVSVDDGGTFEVVLHR VWK
21476	51844	A	21604	37	2883	SMDGAMGPRGLLLCMYLVSLL ILQAMPALGSATGRSKSSEKRQ AVDTAVDGVFIRSLKVNCKVTS RFAHYVVTSQVVNTANEAREV AFDLEIPKTAFISDFAVTADGNA FIGDIKDKVTAWKQYRKAAIS* EKA\GLVRASGRTMEQFTIHLT VNPQSKVTFQLTYEEMLKRNH MQYEIVIKVKPKQLVHHFEIDV DIFEPQGISKLDAQASFLPKELA AQTIKKSFSGKKTSNGSHSRRF QGHVLFRPTVSQQQ
21477	51845	A	21605	1	1008	
21478	51846	A	21606	1	435	
21479	51847	A	21607	1	676	IRHQGAAAQEGDAETPGSVERR GRRAGAEDGMSQAPGAQPSPP TVYHERQRLELCAVHALNNVL QPAA\FSQEAADEICKRLAPDSR LNPHRSLLGTGNYDVNVIMAA LQGLGLAAVWWDRRRPLVPS WPCPKGLG*ILN\LPSPVSLGLL SLPLRRRHLRWPCARL/VTVSY YNLDSK\LRAPEGPGGLRTE/LR GLSLAAALAQGLCEVLLVVTK EVEEKGSWLRTD
21480	51848	A	21608	89	316	ELLSPLLVAPGPSDLTVTGLKSF SSPSLCSLNTLLAGTSRLMVA*L YESLGQGEDLGLLTPGPEFLSIS SYCNFM

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21481	51849	B	21609	1	1920	
21482	51850	A	21610	1	1727	LPRVLGHSGHRGGLSSRRSQGL VSRFRLRALCGAGSDMWRLPG LLGRALP\RTLGP\SLWRVTPKS SSPDGPQTTSST\LLVPVPNLDR SGPHGPGTSGGPRSHGWKDAF QWMSSRVSPNTLW\DAISWGTL AVLALQLGR\HIHFQAFLAAGP\ KRVE\HCS\WHSPL\DRFFSSP\L WHPCSSLRQHILPSPDGPAPRHT GLK/ENPRLGKE\EASAQPRNFS HNSLRGARP\QDPSEEG\PGDFG FLHASSSIESEAKPAQPQPTGEK EQDKSKTLSLEEAVTSIQQLFQL SVSIAFNFLGNQMDPAPRQEGT ENMKSGDHTAAFSYFQKAAAR GYSKAQYNAGLCHEHGRGTPR DISK/SV*KAGLYYQLAASQGH SLAQYRYARCLLRDPASSWNPE RQRAVSLLKQAADSGLREAQA FLGVLFTKEPY\LDEQRAVKYL WLAANNGDSQSRYHLGICYEK GLGVQRNLGEALRCYQQSAAL GNEAAQERLRALFSMGA\ASPG APTNLTVTGLKSFSSPSLCSLNT LLAGTSR\LPH\ASSTGNLGLLC RSGHLGASLEASSRAIPPHPYP\ LEKN\VVRLGFG
21483	51851	A	21611	1104	1680	LATPDVRYCYLSTYTSLPNPAR RFFLFSLCCKFSHSH\KTATVKK YNKSEYPWDLVKAHLQGAFTS NITFDISELQNKILDLNRHTQEF QPSLEDWTEFQEGLESLNPWTY LKYHSNILYVVLGVMLFCLCLL FIVCKIGWTANRRMRAAQPGL TFFQLIHKQGDMQGAEGPWDV TNSAFHWRLYDQTANCLS
21484	51852	A	21612	364	824	LCIILFKQLSTWRTGCAQPTKR GYTELQTEGPMLKSMFLWLGE QVQILQL\HSNCIVILTTLV/FCV TNLE*FIVCKIGWTANQKMGA AKPGLTFFLLICK\QKGDM*GA KGPWDVINSAFH*RM
21485	51853	C	21613	196	504	
21486	51854	A	21614	3	142	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21487	51855	A	21615	1178	2285	IVWLMTTGGQCRY*LSALIKL* DR/WFQRLCIHVIQRLRPVHAH LYLQPGMEDGNSFRQMFRSTR SLHIPTRDLPLSPDTTVVLHQVY NVLLGLLSRAKLYVDAAVHGT TKLVPYFSFMTYCLISKTEKLM FSTYFMDLWNLFQPKLSEPAIA TNHNKQALLSFWYNVCADCPE NIRLIVQNPVVTKNIAFNYILAD HDDQDVVLFNRGMLPAYYGIL RLCCEQSPAFTRQLASHQNIQW AFKNLTPHASQYPGAVEELFNL MQLFIAQRPDMREEELEDIKQF KKTTISCYLRCLDGRSCWTTLIS AFRILLESDEDRLLVVFNRGLIL MTEGKD\TFMIVCC*TTSFLIISS SIYYAELQSTVKNLLKH
21488	51856	A	21616	1	436	
21489	51857	A	21617	369	508	
21490	51858	A	21618	2150	3120	DLRALALLLSVHTPKQLNPALI PTLQELLSKCRTCLQQRNSLQE QEAKERKTKALALWTTIITFRV GGGSNTLGVTGLRVVCSAEPPK YKC*KQN*LPTSPPNVILMTFRE VSLLACVFTDDEGATPIKRRRV SSDEEHTVDSCISDMKTETREV LTPTSTSDNETRDSSIIDPGTEQ DLPSPENSSVKEYRMEVPSSFSE DMSNIRSQHAEEQSNNGRYDD CKEFKDLH\CSKDSTLA\EEESE\ FPSTSISAVLSDLADLRSCDGQA LPSQDPEVALSLSCGHSRGLFS HMQQHDILDTLCRTIESTIHVVT RISGKGNQAAS
21491	51859	A	21619	2	4049	EEENGREYKFDVSSELLEWIWH DNMQFLQDKNIFEHTYFGFMW QLCSCIPSTLPDPKAVSLMTAK LSTSFVLETFIHSKEKPTMLQWI ELLTKQFNNSQAACEWFLDRM ADDDWWPMQILIK\CPNQIVRQ MFQRLCIHVIQRLRPVHAHLYL QPGMEDGSDDMDTSVEDIGGR SCVTRFVRTLLLIMEHGVKPHS KHLTEYFAFLYEFAKMGEEESQ FLLSLQAISTMVHFYMGTKGPE NPQVEVLSEEEGEEE
21492	51860	A	21620	58	219	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21493	51861	A	21621	195	1187	RVPRTWLLPSFCASRSRENEGL SEFGASQTVTPSPASSVQAWEA MEPEFLYDLLQLPKGVEPPAEE ELSKGVCKKYLPPTSRKDPKFE ELQKVQQEWINATLLPEHIVVR SLEEDMFDGLILHHLFRKWAAL KLEAEDIALTATSQKHKLTVVL EAVNRS\CSWRSGRPSGA/WEST WNKDLLSTLHLLVALAKRFQP DLSLP/D/HTNVQVEVITIEVAA NFVNQKLDRLGLSVQNLDTQV GTGVILLLLIGQLEGFFLHLKEF YLTPNSPAEMVSFVTLALELL/I GRGPAQLPC/LALKVSAT/MDA KSTLRVLYGLFCKHTQKAHRD RTPHGAPN
21494	51862	A	21622	96	1350	AAGLLPPGLVPEDPRRTRNLLP FGIQGPPFALSRPLFSCVESGWA WEAMEPEFLYDLLQLPKGVEPP AEEELSKGGKKKYLPPTSRKDP KFEELQKPA\VLMEWINATLLP EHIVVRSLEEDMFDGLILHHLF QRLAALKLEAEDIALTAT\NQK HKLHSWCWRP*TGVCSWRSGR PSGA/WESIFNKDLLSTLHLLEA LAKRFQPDLSLPTNVQVEVITIE STKSGLKSEKLEEQLTEYSTDK DEPPKDVFDELFKLAPEK\LNA VKEAIVNFVNQKLDRLGLSVQ NLDTQFADGVILLLLIGQLEGFF LHLKEFYLTPNSPAEMLHNVTL ALELL/IGRGPAQLPC/LALK/TI VNKDAKSTLRVLYGLFCKHTH KAHRDRTPPWSPELTLTASKAQ SLPVSPAGGPEAAGCPPTVPLFP
21495	51863	A	21623	1	87	
21496	51864	A	21624	45	277	
21497	51865	A	21625	171	511	GKFRYSPALHSWATRLRTSTAA GHCCMNSSQNKLSSKSWAMTR HALNVKRFTIFQSHQCSLSKKV NLSLFQQGAERLPSQELTHLLL QEVRCE*RDFPPEEATWTGLPV LPSQ
21498	51866	A	21626	276	387	
21499	51867	A	21627	1	218	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21500	51868	A	21628	139	9009	ESSEDVSGGLPFLVDLGFRSVC VSLFHVKNPVQWDQKLPKKKK PVRSYCGSKLLQREVIQPDVME EMVVSCVIKHLNLVDALQSLIN FQYQEEHAEEYDLLCKIMGETF KKLNAMERQLQNKMKELELLC SMKEVSFDGNDLENMVLSLRE KFLQEVNSLIQKPSHPLAKTKT LVKSLMNRAELLLHVTIAAQSG LTRSISGTPAETPACKSASETKV ISHAVRQPVFLRSMSAPSDLEMI GNEDLEFTRANQRR
21501	51869	A	21629	1697	2056	
21502	51870	A	21630	237	1545	KPENKKSRTGRNRTKSTPGYRA /RPAAATARISARSTK*WKNSL AGRWARHICWTLWALIPRITLR /HVMAAGFPQRMQKDYRDAID ALCDANRFGQKKRLGFWRYKE DSKGVGLCSYLLIGFYYTDPKN GAAAMKAFVVTRVGDVFLAFA LFILYNELGTLNFREMVELAPA HFADGNNMLMWATLMLLGGA VGKSAQLPLQTWLADAMAGPT PVSALIHAATMVTAGVYLIART HGLFLMTPEVLHLVGIVGAVTL LLAGFAALVQTDIKRVLAYST MSQIWLRCSSRLACRHGCGGSL ECLQHEGIPYSRMGRPHTTSAL RRFTSEFGMGSACFTLGYFFMY KQAVILLLMLFTASVSAACTLPI AIDHGTPGPAELLTVALRYNLS SYDAAYLELALRLEIPIAKGSPN FAFRRAATGNEGIKMHFLRNK GILWI
21503	51871	B	21631	1	1440	
21504	51872	A	21632	525	716	PKTPAGPVEPMHQVPSSKRVPT RDKRTRGDSTRHSGQSKPTKRY NHAYEI*PRIKWFIPDAGC
21505	51873	A	21633	8	136	
21506	51874	A	21634	1476	1611	GCDPAPGLPAPPHT/QP/DH*NQ RQIGIG*FLTGTVPATHLRQRLA AA
21507	51875	A	21635	461	827	AALQMRDTSDPADCGEQSVCG YSEPVPEYACFHRIQDLHDTET AACFSHAGSGRTHV*SQSEHAA GSVLWSYRYRC*TGTAGYTDR FSQQRCHVRRGISPRCWPEYQS RSWCRLFPSPESAG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21508	51876	A	21636	1	3735	MAEASVFQTVDPWRPGFATIPD FLKERYDKTTRIIIDFCFLIATGV CFLPIVLYSGALALNSLFHVGES LQISHGAAIWLLVILLGLAGILY AVIGGLRAMAVADSINGIGLVI GGLMVPVFGLIAMGKGSFMQG IEQLTTVHAEKLNSIGGPTDPLP IGAAFTGLILVNTFYWCTNQGI VQRTLASKSLAEGQKGALLTA VLKMLDPLGLKPDLLAYNTAL RALIPQRLIAFDDAVRSTLKEEE KLVNSSDWGY
21509	51877	A	21637	840	1064	WSVENYHRRGYGGHIPLPAASP AVAAQWCDAGR*VPPAARRW HRHQVYLTYLITLDRGLSRARF CIPSAHCSAY
21510	51878	A	21638	979	1409	RLVVDIFHDNRHAFPRRLVSDA AAHNACTQHRGLFRGFNVFGE FLRFAFYILIVKENADQCAGFV GMRQRDKTFVFQV*GFFTTKT GRSFNGFYCGDGGRIMF/LPLFV RPSL*RW*SSWWLQSCSVLVVP ASADVLLSSRGRR
21511	51879	A	21639	903	1397	LPTLPMMVCCTTPTSSRKHWM *NPSTLT/HAWVPYTNFSPIYEG KCGMSGARVEGKVIYETQSTH KLLAAFSQASMIHVKGDVNEE TFNEAYMMHTAASPHYGIVAS TETAAAMMKGNAGKRLINGSI ERAIKFRKEIKRLRTESDGWFF DNAAGYIDTITLGGPS
21512	51880	B	21640	1	5305	
21513	51881	A	21641	129	723	LITARGQVADRNLRDLLAPWV PDAPSRALPEMTLDSRVAAAV DLFVARIGHQADGRRYIPQAIA QGVAAIIAEAKDEATDGEIREM HGVPDIYLSQLNELLSALAGRC YHEPSDNLRLVGVTGTNGKTT TTQLLAQWSQLLGEISAVMGT VGNGLLGKKKEKAAIQYNTLC KSCTLTHPKPHNESDH/IRCRC*

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21514	51882	A	21642	1	2230	MMRTSGGTRDNESSSDDERER ENRLSDEKSNEYANLVGGERY EPDEENPMLGFRGAGRYVSDSF LRLCSSLEIVKARETVALIQGLK H\DLLADDTALRALIPQRADRFP MNAVRSTLKEEEKLVNSSDWG Y\DAQAFARWRPEYGYFAKQA GFTVKTSASLAALWQVVNQIG GKERYFFGNILWQTRALMDRAI GHKLAKGRPEREYLQTGDAVD SWKVIVVEPEKQLTLLFGMKAP GLGRLCFSLEDKGDYRTIDVRA FWHPHGNRAEREKPRFQPYSRR KSFIGQNMLLPMSIMPPVFRRVI CPLGVARLGKFRDPVYLVCVFT RQIFRYYTSGDEFLQINTTGGED IDDIDDIKLFVYEESYGISKESH WREAINAKAMGAMTLNWQEK RWQRFFNSEEPGNIEPVYMLEK VENQNHAKWEVHNFTMGYQR QVTEDTYEYLLLNVVGVPVPD NIHPMTKDEAGVWSWRTPILK GNLYEYFFNVDGVRSIDTGTA MTNPQRQVNSSMILVPGSYLDT RSVAHGDLIAITYHSNALQSER QMYVWTPPGYTGMGEPLPVLY FYHGFGDTGRSAIDQGRIPQIM DNLLAEGKIKPMLVVIPDTETD AKGIIPEDFVPQERRKVFYPLNA KAADRELMNDIIPLISKRFNVR KDADGRALAGLSQGGYQALVS GMNHLESFGWLATFSGVTTTT

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21515	51883	A	21643	1	1549	MDASGHHVRGFASGMGCCRV RRTMKRETGGGRLAGFRLVGT LGQHLGAHRSASKGHQILAAA RHVDRLAK\LQLA\NVSCHEVD LSWPDNLPALLQDIDTVYFLVH SMGEGGDFIAQE\RQVALNVRD ALREVPVKQLIFLSSLQAPPHEQ SDHLRARQATQ\EIRSEGNVP\V TELRAEIIVGAGS\AAL\EVM\RD MVYNLPVLTPPRWVRSRTTPIA LENFLHYLVALLDHPASEHRIF EA\AGPEVFSYQQQFEHFMAVS GKR\RWFDPPSPLPT\RWISVWF LNVITSVPPTTARALI\QGLKHD LLADDTALRALIPQRLIAFDDA VRSTLKEEEKLVNSSDWGYDA QAFARWRPEYGYFAKQAGFTV KTSASLAALWQVVNQIGGKER YFFGNILWQTRALMDRAIGHK LAKGRPEREYLQTGDAVDSWK MIVVEPEQQRTL\LFGMQAPGL GRL/CCFSLEDKGDY\RTID\VRA FWHPHGMPG/L*F*WLLMIPAH LFIFRGMAKQIARLAVPSTDLID
21516	51884	A	21644	201	363	SLRGSRTAASPCWAVPVHVPG HGAGEPAHHPGHQP*LPPPHPH VLLPLQPVLA
21517	51885	A	21645	3	440	PFSLPFSLGLTASLFMNTWLAIS SNCDGFIPASPACFCSFLLMSSA L*RTKAM*IMC*FSGLSGSKGV YIR*ASHSLS*NCAGLSSFP*MT SESLLTFVAF*APLINPSKRASLS RFSLCISSLSCGSNWGSVPGNW VLPYSWGF
21518	51886	A	21646	359	543	VVTPDSGSSH*KANSFCLSGAN LMLKKASFRSKQVNQLSSAGS NPSNMYGLGTVGCKVTVA
21519	51887	A	21647	2	582	
21520	51888	A	21648	3	574	
21521	51889	A	21649	1	195	LCVFFVLVSFFLSPLDSQLAVV C*FDGTGIGMYLTSAVSPPPRN GVVASVMYAVVTPMLNLFICS
21522	51890	A	21650	2	457	
21523	51891	A	21651	21	545	PPCTSLRPLHAFSGKMTHLNRG TLSLLDSQLHNLIALQMTCFKD VEIPNFFWEPSVTPSHRNINMYF PAAVFGFLPISGTLFSYCKIVSSI LRVSSSGGKYK/AFTTCGSHLS VVC*FYGTGVGGYLGSDVSSSP RKRAVASVMYTVVTPMLNPFI YSLRNRDMKSVLRRPHSSAV

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21524	51892	A	21652	899	1039	LWTSSLTAESSPMRAA*LRETSI VSAASRAFSAALSSSALRAFSA C
21525	51893	A	21653	804	1390	QGTIILKVLRHLRWTWIPSRASL RTGYCFCLTGWTPGLTSISTGA WLTANPGGLSSAHTLGHRLAR AGLISWPGSVKKSLHSSSRGSIR VIMTPVPGNFSSKEPCSVKEIVA LSLLSKSLPNKGKGQSGMYKN* *ITLCPPIVQVWGKQKACFAET PMAPMMSIVFLDKGATEAVTT ECSALVSTRKSMSLPPTV
21526	51894	A	21654	84	730	HLSDSKSQVRYQPSADLSFLLG HYNPQSSRRVLSVLDSQLHNLI ALQVTCFKDVEIPNFFCDPSQLP HLACCDTFTNKIIMYFPAAIFGF LPISGTLFSYSRIVSSILRVSSSG GKYKAFSTCGSHLSVVC*VYGT GVGGYLSSDDVSSSPRKAAVAS VMYTVITSMLNPFIYSLRNRDIK GVLRQPHGSTVQFQYLLICSIPF VVWVKKGSKVK
21527	51895	A	21655	1049	1979	
21528	51896	A	21656	2244	2901	LRCLSLPFLEAWKRDMLLSVM A\YDRFVAICHPLYHSAIMNLCS VGFLVLLSFFFF\LSLSDSQLHN LIALQMTCFKDVEIPNFFWEPS QLSHLACCDTFTINIIMYFPTAIF GFLPISGTLFSYYKIVSSILRVSS SGGKYKAFSTCGSHLSVVC*FY GRGVGGYLSSDVSSSPRKGAV AAVMYTVVTSMLNPFIYRLGN RDIKSVLRRPTEHCLISKK
21529	51897	A	21657	1	2850	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21530	51898	A	21658	1	1703	KKMALTSFLPAPTQLSQDQL\E AEEKARSQRSRQPSLVSSRREPP PYGY\RKAWIPRLLEDF*DRGA FPEIHVAQYP\LDMGRKKKMSN ALAIQVDSEGKIKYDAIARQGQ SKDKVIYSKYTDLVPKEVMNA\ DDP\DWQRP\DEEAIIEITEKA\R VAL\EKSVSQKVA\AAMPVRAA *QIGPLLQYIPIHTISGKGVAIQT SWS*TRRVIR\MVEMQ\KDPM\E PP\RFKINKKIPRGP\PSPPAPVM HSPSRKMTVKEQQEW\KIPPCIS *LGKMAKGY\TIPL\DKRLAAD GEEGLQDSYTLNGKFSAKLAE ALYIADRKAREAVEMRAQVER KMAQKEKEKHEEKLREMAQK ARERRAGIKTHVEKVKYFSTVH TEDGEARERDEIRHDRRKERQH DRNLSRAAPDKRSKLQRNENR DISEVIALGVPNPRTSNEVQYD QRLFNQSKGMDSGFAGGEDEI YNVYDQ\ALIGGKYMAQSIYRP SKN\LDKDMYGDD\LEARIKTN RFVPDKGVFLVQTRRQRGREGP \VQFEEDPF\GLDKF\LEESPTAM GGS\KRPSG*PAAPREHGAWKA RKRRKE
21531	51899	A	21659	2	1588	CLRRALPGSIESAPTAPPPPPSGE GSQAYISRLPATLIVLILERRQL LGVWRRARCCSLINLAHRRHC GMPTRESPCAILARRYEGRRSPS TVAQPPPPPPPIELAPSTSETPIQ ATRGAHPAQPSS/VPPA/PARPPE RPPVPEQGPSGTHPDPTP/PGPT NAPQRPSAP\PNTTN*PTRHMH QLPDAA*TPYPAYGSDYL*AR* DATASHQASCTN/SPDAA*TPYP AYAKIERA*ENPVPSAIKIIGRSS SSGRQASPWGMA/SPHWRSWR MGPNGSGKRPRRAAERISCCRN AQGRTHSQKAYIQQQPQCCVN VHLQPPD/PTPAQ/PSQTLSPPDS /PAPPLPAYPS/TQHPTAPPPTSSP MSS/RIVKPHPQHCGARPGQGK ERDETERKDAKERNRRTATPTT RHTDRLPRTAHGPPPP\PPPPPPP PPPPPPPRDSPRRPRRREKPEQQ KEGGQTGRTQRKETARRGEER ETGRKKTRGAPPPRPAAARRPH ETAETKRRPPARQHRPPRRRPS DGTERTRHQLGFIMLGLLSWN

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21532	51900	A	21660	2	192	RVDICSTNYCWWLYPMTSGPSF SYV*GP*EEDVRE*MCGRDGL* YLSIGVVCGFICQHHNRAQ
21533	51901	A	21661	783	2119	GSEMPVTVMLTLGEPGHFMSS LG\CWCGVEDEAAPSKQSIYIQ RETQVRTPMAGVSPKKAHPCE MCGPILGDILHVADHQGTHHK QKLHRCEAWVNILYDSGNFHR RQNEHIGEKPYRGSVEEALFAN RCKLHVSG\SHLSSVRV/EKDFL LRSGLLQQEATHTGKSNSKTEC VSLFHGGKSHYSCGGCMKHFS TKDILSQHERLLPTEEHFVWCE CGKSSSKYDSFSNHQGVHTREK PYTCGICGKLFSSKSHLLVHQRI HTGEKPYECEVCQKFFRHKYH LIAHQRVHTGERPYECSDCGKS FTHSSTFRVHKRVHTGQKPYEC SECGKSFAESSSLTKHRRVHTG EKPYGCSECEKKFRQISSLRHH QRVH/T/NERAYECSESSLIKYW RIHT*VRSCDCSKCGK/CFTQRS ALLGYWRVHTR\KSPYK*NKFG QFCSHTSVFLQDYS
21534	51902	A	21662	84	437	KMTSTQPVKFSLFASHSVPCGQ SFPGRRAFAPAMPRRRIPSSDHL PEPGQSHQHVNRQRWACRELI AAFLPSSYRL*LVETGGEIGQRN RASCHSPFPAGSSPGIFQTEIGKP CLLP
21535	51903	A	21663	69	446	
21536	51904	A	21664	880	1365	
21537	51905	A	21665	1705	2196	RQNQREGDDDTEDQPPRPGTQ MTELFFLIQMLCFMANALRQL VHPL/MGNVHEYFADLKMPAC AVSAFLCAMHRSITSMFE*DNG PGPADADAR\LDMRIQVFMFCA NTLPARVLQRNKNPGQDHPET AERRAESQRIIEKGLKCIQGKGI VNSISMKEGVDAFIH
21538	51906	A	21666	1	1147	
21539	51907	A	21667	254	557	AADEIGGIAVETVTEDAHLLCG CTVVAIPPRICVSAGGGAGDRK SSVRFHQNLAQVHITRGV/VWT MTNSHIITCCATAFGTTTSPSPT ESTGVPCGRRNQH

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21540	51908	A	21668	557	1031	SSRNASGAVRKISRGMPDKKW NMALT*HSR*ANFSPLPVSGLS RRKICTIPRAQRIR*PICADRLSV ASPAACGI\AYTRRYSHDGATA EKYAHLQSRFRQQCRQFHPAA YDESPHRNRRRKWRPTYRCHP APDHRTACLRSAFYGNAPGCV QTERSW
21541	51909	A	21669	572	825	QARISTSFFRESLPSRHPVPRYR PLEAFWTPCTRGYYRFFFSPAR ENAEYRTL\KHWAKFLLVRASF PGASTLCCKSPGRTISV
21542	51910	A	21670	303	899	EDNYSGSSLYCFDDVASVQMP GSNGNCRR*CAGKTSG/TWRNS LVRQWLLTAQKKTLLHAVSNL PKTWAQILFSKQRVLRSPLNRH LIW*CAAVKL*LLVLYPAIRQSI SSKSIAKSLSRRYFR\LPIGDSM* NRW*RIFTIIGMYIGTAL*SDGAI VVCRLCENLPGSFHQRHQRCD AASLAGGSEPIAFSRAGRTPGP
21543	51911	A	21671	1	1320	
21544	51912	A	21672	99	761	IDNAPPDQTTVHAFAANSENHS PPQLPYETPDDADPTHQAFSRW RHRPQAYSADALLRERLPPTHR HRGQSPDSLTSLPYWRGRRKY RAAPALT*TPPDTLFDSPP*PAV PPPVAKELPVTAQRQVHNAMS ANSFVIFHPVKIRNNIVLQPAIAI QRRNGHGVTRCAAALHSRHGS LSVARHRVHLPVCRQADDKPA PAPLRPARYCLCPNQSAAVRYL R
21545	51913	A	21673	62	680	SSRNASGAVRKISRGMPDKKW NMALT*HSR*ANFSPLPVSGLS RRKICTIPRAQRIR*PICADRLSV ASPAACGI\AYTRRYSHDGATA EKYAHLQSRFRQQCRQFHPAA YDESPHRNRRRKWRPTYRCHP APDHRTACLRSAFYGNAPGCV QTGPVRRSGAASASSPAVFLSG TSPWSFARTIALVRGRSRKSTRT RLWHISAHC
21546	51914	A	21674	411	481	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21547	51915	A	21675	402	915	RLASKLFTTVTPRGGVGELQAT TRNAAVAGIKRKRSNRGRPAEE PELTADRGQGENEITEAATAAK ARRTMRPKTGNQNPDKHRTRG LQICHTFNANGNRARCSAANA MAATISGLSSGLSGTGWQETIR PPLAAIF*SSCASNDIHLPKSFLA LPNGTAPLNGLPSIAS
21548	51916	A	21676	1416	1832	GSAPRQRHLAGRRPVTTRPKHV SHHGPQENSAHRLSHVDNESTC IVCGTLRLQHSARYFPPSLPETL FLAPVNHSV/EYNWQAAVPK*I Y*HQTFPGRDCQHLLFHFVRKF GVRESI/AQVVAVRAATSAWRY SRSSAITL
21549	51917	A	21677	97	300	
21550	51918	A	21678	756	1179	RRRLPSPYCRAAAGSSPSYECF AHQRSVASSRGHTGTRQFYRE HWFLRCIRRLSGTRLLAYHRCF QPHLACSGKRAVSASSTRSADV AAWYRV/CAKPFSSSS*VQEDL SYLRFSAS*P*TVIL*PACRKPCR KRRGQRRWR
21551	51919	A	21679	3	1279	
21552	51920	A	21680	1	2448	
21553	51921	A	21681	317	1985	PNTPLTSKLPLLTHPLTLLTPSA SGWQKTTKLSCVF/PETEKYAH ERLAHHVAQGANQYAPMTGV QALREAIAQKTERLYGYQPDA DSDITVTAGATEALYAAITALV RNGDEVICFDPSYDSYAPAIALS GGIVKRMALQPPHFRVDWQEF AALLSERTRLVILNTPHNPSATV WQQADFAALWQAIAGHEIFVIS DEVYEHINFSQQGHASVLAHPQ LRERAVAVSSFGKT\YHMTGW KVGYCVAPAPISAEIRKVHQYL TFSVNTPAQLALADMLRAEPEH YLALPDFYRQKRDILVNALNES RLEILPCEGTYFLLVDYSALSTL DDVEFC*SLTQEHGVAAIPLSVF CADPFPHKLIRLIQTAAINLLVN HERRANAVINVDHAEIPFLRIIL PFLRQRQHHAVIIDHHPNAELL FQQIFHLHRRCPRRFRHGLRHA GHRINLTVDFQRQVDGMVRPQ FTVAMPAIFRFRTAAPSASVHQ SGVRLPYQFMALIASDNFCCW VHGGYITLAVNGNDAIGSVFNN QIVKCPRFTQCLGEVINTLTDLP HFTGQLW

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21554	51922	B	21682	160	312	
21555	51923	A	21683	80	452	
21556	51924	A	21684	158	1980	REDTAHLPAVGFLPQNPFRAIR ASGEMLLPLLLLLPMCWAVEV KRPRCV\SLTNHHFYR\ESKPFT\ CLDGSATIPFDQGQRLTYCDCK \DGS*RSQATAA\CP\NGQAFH\C HQTLGL*SPL**SPSKPGSNDGV CDCCDGTDE\YN\SGVI\CENTC KEEGPVRRRESLQQMA\EVTRE G\FRLEEDPLFEGLGKKAREEK QKKL\IELQAGK\KSLEDQ\VEM LRTVKEEAEKPEREAKEQHQK LWE\EQLAGFQGPNREQDARA ADAFKELDDDMDGTVSVTELQ THPELDTDGDGALSEAEAQALL SGDTQTDATSF\YDRVWAAIRD KYRSEALPT\DLPAPSAPDLTEP KEEQPPVPSSPTEEEEEEEEEEE EEAEEEEEEEDSEVQGEQPKEA PPPL\SPPQPASPA\EEDKMPPYD EQTQA\FIDAAQEARNKFEEAE RSLKDMEESIRN\LEQEISFDFGP NGDV/FAYLYSQ/CARDLTTNE YV/YTRLCPFQVLFFAGNPNSG VFPTSLGHLGASW/VLGPDHGQ VSVAMKF*ARHGACWQGPNPL QHP*RFWFGKET\MVTKHPQ*P SRCEYLHGS**TPAA\CPEPPAL KQPQPKD\DHDEVLSWMGARE
21557	51925	A	21685	59	359	LLRIGNDWCIPKGITPTTHIIKLP IGEIRQPNATLDLSQSVDNEYY CLLLAKELGLNVPDAEIIKAGN/ GARVSGRTF*QALEC*ANGFTS LATGGYVSDI
21558	51926	A	21686	1	213	MSIAVTTTDPTNTGVSTTSSSSL TGSNAADLQSSFLTLLVAQLKN QDPTNPMENNELTSQLAQISTV SGIEKLNTTLGSISGQIDNSQSL QASNLIGHGVMIPGTTVLAGTG SEEGAVTTTTPFGVELQQAADK VTATITDKNGAVVRTIDIGELT AGVHSFTWDGTLTDGSTAPNG SYNVAISASNGGTQLVAQPLQF ALVQGVIRGNSDITTFGVNMKL AHLGRQALMGVMAVALVAGM SVKSFADEGLLNKVKERGTLLV GLEGTYPPFSFQGDDGKLTGFE VEFAQQ*FAHGQQRRRFTKQFS DFAGGAAEKPGPDQSNGKQRA DVAIGTNQHGQRD

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21559	51927	A	21687	1	2339	MSGGQTEKQAQLIRDFQPDMI MVTPSYCLNLIEELERQLGGDA SGCSLRVGVFGAEPWTQAMRK EIERRLGITALDIYGLSEVMGPG VAMECLETTDGPTIWEDHFYPE IVNPHDGTPLADGEHGELLFTT LTKEALPVIRYRTRDLTRLLPGT ARTMRRMDRISGRSDDMLVLR RRHLCRPSACQLCRPPSLPATD RVLELFAQSGAQWLVILGDVL NHGPRNALPEGYAPAKVAERL NEVAHKVIAVRGNCDSEVDQM LLHFPITAPWQQVLLEKQRLFL THGHLFGPENLPALNQNDVLV YGHTHLPVAEQRGEIFHFNPGS VSIPKGGNPASYGMLDNDVLS VIALNDQSIIAQVAINPAPEKEG FLIMEQRRLASTEWVDIVNEEN EVIAQASREQMRAQCLRHRAT YIVVHDGMGKILVQRRTETKDF LPGICATSKVRKLLCKSAALLP VSELLLVLLTPVFVGSAVIGKL GAFAIHIDGITVKRRLVRNTVL QFCGRSRQPLEYVSAGDTGPVL RALKRMMAMRHYMRSQTVKG VTDTRAIDEVALSVAQVEEMY RYLAIANYEDRFVIPTSHREMA GDAFAERNGCGFTFGDGCHGS DSKFNLFNSSRIDAINITEILKVI GLLMEYPDELLWECKEDALALI RRDAPMLTDFTHNLLNAPLLD KQAEWCEVFDRGRTTSLLLFEH
21560	51928	A	21688	391	631	
21561	51929	A	21689	2779	3348	LMQLHNGLPVAGLRQFCQQLV IQRLYFFTTATAHQCTRHMCHR HRSLLTAHRQMALCFQYVDDL HHAFADVLINNACYPLLMGEQ GVFIYNGTQQLLHWVIIDSRQD HGFGGL*KSRIVCERRRL*SQH GQFVFRHHVPDHRIDIAFNNAL *TLVIREISSVPASVGVGIDFPGG AATWAGPVVIKPGQS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21562	51930	A	21690	1	1239	MPNVDVVGEMVNTMSASRSY QANVEVLNTEKAMSIAVTTTDP TNTGVSTTSSSSLTGEQRRRFTK QFSDFAGGAAEKPRPDQSNGK QRADVAIGTNQHDAARILRKG TMTTLLNPYFGEFGGMYVPQIL MPALRQLEEAFVSAQKDPEFQ AQFNDLLKNYAGRPTALTKCQ NITAGTNTTLYLKREDLLHGGA HKTNQVLGQALLAKRMGKTEII AETGAGQHGVASALASALLGL KCRIYMGAKDVERQSPNVFRM RLMGAEVIPVHSGSATLKDAC NEALRDWSGSYETAHYMLGTA AGPHPYPTIVREFQRMIGEETK AQILEREGRLPDAVIACVGGGS NAIGMFADFINETN/VSVGPQH AYLNSSVRAD*VSITDDEDLQA FKTLTASYKTTPAAAKTSLHVP
21563	51931	A	21691	32	1778	WDARVFSHSGWVLYLIRQYCSI SAVSSCGSTTGSACSATSWATA TSDSVTHLRLFSYRGSDHFRMR RFNHFRLRFGNLNGGFYDTGHF FNNWRANNRFDSGGDRDLSHH RLHMYFFLFALLFNLYILRTYN WIADPDFARGQFRRRARYGQR HWRLGWITLVTIATTTLTTYAQ VTRRAARTTRHATVVTVISIVL FLLFWCSLRYDWHYCILILRSTP SVLSQYPVGNELRRRRLVHLHL LCTYSDDDSRDPRYRQESRTRN GVVPVIVNIDVHRFGQTGDQH GAMIIPVIFLLNVAMHERASGHI PNGNRTYYLSRSQPPVFALMVE LFEEDGVAVARYLDHLKMEYA FWMDGAESLIPNQAYRHVVRM PDGSLLH\RYWCDCHTSCD*SW LEDVETAKHSGRPPNEVYRDLR AGAASGWDYSSRWLRDTGRLA SIRTTQFIPIDLNAFLFKLESAIA NISALKGEKETEALFRQKASAR PMREYETGEQWDKPNGWAPL QWMAIQGFKMYGDDLLGDEIA RSWLKTVNQFYLEQHKLIEKY HIADGVPREGGGGEYPL\QDGF GWTNGVVRRLIGLYGEP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21564	51932	A	21692	1	2514	MKTLIARHKAGEHIGICSVCSA HPLVIEAALAFDRNSTRKVLIEA TSNQVNQFGGYTGMTPADFRE FVFTIADKVGFARERIILGGDHL GPNCWQQENADAAMEKSVEL AVVIDLWSRAVIGWSMSPRMT AQLACDALQMALWRRKRPRN VIVHTDRGGQYCSADYQAQLK RHNLRGSMSAKGCCYDNACVE SFFHSLKVECIHGEHFISREIMR ATVFNYIECDYNRWRRHSWINS LLSQKRNTQGRIEDGRQH
21565	51933	A	21693	1	1527	
21566	51934	A	21694	792	1602	HCLSARRYELVCQPK*AFVR*L LR*IAVLR\HLNIQHLRRSHSLR HGRRHTRKGERGTINIVNGTPI HERSRNIDNRRSPSPYIRKRGAH TELRSDHPLLINQHWHHFAGM VAVTNGRIVAVIRHHDQAIIWL HRLNKPGKVTVNDLQTFGITCD VFCMTSEVGFLNVGANKRRRM GVKFVEGDIHNPLAIHQILPAH AIRIVDDICHLTHQHGWHACFI QFLWHLHFFIDAIAHMHDLETV VISARTRRIDTNKAPFFAFCGIE
21567	51935	A	21695	1	1530	LSQQTVNTLQAGHQTIHFFMG VIHGQRRPTHRRDVVIGHQWH CAVMSGTHSNAVIIEKTANIIGV VFTEIKSNNAKPVLWAIESNAA ATDGEIVFDGEILKSACEINDSD KKIEVALGHYNAEQFRNIGERS PKIPFTIPLVNCPMTGEIANILGS KPGTIFTMLRDTGGIKPHERKR AVAHLTLSEREEIRAGLSAKMS IRAIGYWR*IASPSTFSRE\VQRK GGHR\YYKAVDANIRANRMAK RPKPCLLDQNVPLRKLVLEKLE MKWSPEQISGWLRRTKPRQKT LRISPETIYKTLYFRSREALHHL NIQHLRRSHSLRHGRRHTRKGE RGTINIVNGTPIHERSRNIDNRR SLGHWEGDLVSGTKNSHIATLV DRKSRYTIIVRLRGKDSVSVNQ ALTDKFLSLPSELRKSLTWDRG MELARHLEFTVSTGVKVYFCD PQSPWQRGTNENTNGLIRQYFP KKTCLAQYTQHELDLVAAQLN NRPRKTLKFKTPKEIIERGVALT
21568	51936	A	21696	2	140	IITNSISRPGDPPMSDPHS*SPAS SSAKTETKSLFNAFLV

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21569	51937	A	21697	1817	4083	KGLLTSFHYIKTPEVPNLCVEG GTRLQIWPACSSTGSGGTCWK APPQPPRPPTSSSPS/PAPPSEAF VLSAGAMQLEAGAYSLVIIKES KNNVGVDVIKRKHFCTAGGNV NQYNHYGKHCVLSCSGPASGA QPLYRMAQPPSPPNMAAGIPPA ARISSSITSPLLKPSWLHLLAHP VLQAHLTEEGLGRSHHVQRGQ CLVSKSVFTNACWEMQNVKRF TDFIPLHKNTRGPEPLCRRRNQ APNMACMQQHWQRRN
21570	51938	A	21698	247	281	KPGKQHSMLK*SALLPSAHGPT S/CKEARCHPVQILPPELLF*MP KKICPPLCYLWTVKAWETTFH AEV
21571	51939	A	21699	531	716	PRRLRAAPPDLGGFRLLPR/LPE ASGCSP*SQRLFQKAPSPAPCS WRRSRFCVKTCVLPMGGQ
21572	51940	A	21700	202	606	ITCLHAHVTWCQILPYLMLPAP LLRPLPTPLTVAGVGQSLPEIQL SVTLPLQPGRNQGSLESRHLVS WAEPP*DPAVSALPLQPGRNQG SLESRHLVSWAEPP*DPAVSAL PLQPGRNQGSLESRHLVSWAEP
21573	51941	A	21701	444	1167	FRLHGHLERGPFYFLSPLAVQS SQSCLRRFTTRYHLP\YVLNRK NSWHVAHIFRRHAKPEEQAPIY SHIHFTSDLDEVLNDPDVKLVV VCTHADSHFEYAKRALEAGKN VLVEKPFTPTLAQAKELFALAK SKGLTVTPYQNRRFDSCFLTAK KAIESGKLGEIVEVESHFDYYRP VAETKPGLPQDGAFYGLGALFT NQQGFFKSSLLSIFADSSSSVAG RSPHNLVKKRGGIVAISAFAG
21574	51942	A	21702	1	668	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21575	51943	A	21703	1	1308	MRVYMDGRLIVSTRQRKVLAA GPMLYAATRAPAFTMSGDNLV RSHASIYMTSCHTLLGEQAGYA VFGALLPAITLLHLNSACCIVYV SCLLADAGHRDSLQQAGDKWT TTDSYSSSCTSETLGSACVRYA HSSRNHVRFALSDLDEVLNDPD VKLVVVCTHADSHFEYAKRAL EAGKNVLVEKPFTPTLAQAKEL FALAKSKGLTVTPYQNRRFDSC FLTAKKAIESGKLGEIVEVESHF DYYRPVAETKPGLPQDGAFYG LGVHTMDQIISLFGRPDHVRL* HPGALRNKSPIWTNPFEAQL\FY G\DLKAIVKTSHLVKIDYPKFIV HGKKGSFIKYGIDQQETSLKAN IMPGEPGFAADDSVGVLEYVN DEGVTVREEMKPEMGDYGRV YDALYQTITHGAPNYVKESEVL TNLEILERGFEQASPSTVTLAK
21576	51944	A	21704	199	706	SHDVCRINADRQRDRNNRRQR RSLRVYKLGNQQQNNGIGPRIL FHHFTQYALNFRHMRTEHGFC HPCDTVHRHDGDHTGTEDFVF/ WR*TRDWFWSG*\YQRPGQQH KHLNNQYHRQRFAAEGWTQV RISTKKGDYSDCPEENPHCQPV AGRYHYSLVGRVSNATLARLIR
21577	51945	A	21705	354	569	SRAVCWQVGTRLWAIFGVS*E LQRHVLVVFAGFWIVKNSRNL FLVCRAEHKRSVVKGLLRQQG AGLLVPLS
21578	51946	A	21706	373	462	
21579	51947	A	21707	1	1293	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21580	51948	A	21708	1	1371	MCPIEETASSFGGKPLSMVLVIQ MFMLLTGALIILTKTNPASISK NEVFRSGMIAIVAVYGIAWMA ETMFAPACYGYYILPTYPSDLA AIQFDRSGTTHIGRFVINHSFILP GLIGVSVSCVFGWIFAAIKRDA AAGRAKENVIFHHFPFQSVKAD IATNPFKRPGGAFIRITQTFRTV QTFRLSAYRLDFAGDRLRISTPR AKMRTAFKKDHLRQRRRCIRQ RAPPARHNLVGAVALPATVAG VNFTFSNVPLDSSVLSSLLTDFS TAVGSIVMLAVIMGLMLAFDM GGPVNKVAYAFMLICVAQGVY TVVAIAAVGICIPPLGMGLATLI GRKNFSAEERETGKAALVMGC VGVTEGAIPFAAADPLRVIPSIM VGSVCGAVTAALVGAQCYAG WGGLIVLPVVEGKLGYIAAVA VGAVVT\LFV*TC*KVWRVKM GLRLMKKKTTWIWILKLI
21581	51949	A	21709	961	1116	
21582	51950	A	21710	228	388	RRGRNRYPALQ*TMFLPADGP ARCLSRQAAILKESVLPK*GRP DVVFSPAYPY
21583	51951	A	21711	1168	1851	LHRTGQRPAAQRTETHHPFFNH FARLQVDTVVINHHQHTVAFQ NRTFRSEI*RNNVDIFQPDVLPD ILLGPVREREDADAFAFVNLPV VVVPQLRALIFRIPAMEAVTER VNSLFSAGFLFVTARTTEGGIKT VFVQRLFQAFSFHNIGMFRAAV HEWINPHRHAFRVFMHQQFAA VGFSSTIAELIHLAEFPAGIDMQ QRERQRTWIKRLARQMQHDAG IFTDRVEH
21584	51952	A	21712	1	2653	
21585	51953	B	21713	632	709	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21586	51954	A	21714	1	1214	MHDQQVIDAYHPDLRRTRAAS QSIIPVDTKLAAGITRFFPQFND RFEAIAVRVPTINVTAIDLSVTV KKPVKTDVGGAGTVKLNRCQI ARISRQDVITPPGCVFEKALTLL IASGRNDTLARQNNHTKESLVE KPFRKILVIKMRYHGDMLLTTP VISTLKQNYPDAKIDMLLYQDT IPILSENPEINALYGISNKGAGTF DKIKNVLSLIKTLRANNYDLVI NLTDQWMVALLVRCLPARMKI SQLYGHRQHGIWKKSFTHLAPI HGTHIVERNLSVLEPLGITDFYT DTTMSYAEDCWKKMRRELDA LGVKDHYVVIQPTARQIFKCRD NDIISKVICMIRGSPTEGRWSVF FFYPADFTFVCPTELGD/GC*PL RRTAETGRRRIRSIYRYSLHPQS
21587	51955	A	21715	25	1086	
21588	51956	A	21716	1	1113	
21589	51957	A	21717	80	430	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNDLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMTNF
21590	51958	A	21718	1	2076	
21591	51959	A	21719	2742	3109	VWTEGTGNASRARR/WKGNQL LPVSLVKRKTTLAPNTQTASPR ALADSLMQLARQVSRLEKRAV SATQLMAKAVKGQSSLLPVSL VKKKNHPGALIRKPPLPARWPI LLIQLARQVSRLETGQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21592	51960	A	21720	174	1608	TAAKRKIPSASIRSIND*KY*VC KRT*CVGQLAA\ENADGTVAEY NGYHVVFALAGSPKDADDTSI YMFYQKVGDNSIDSWKNAGR VLMNPLMILVKIIKLSLTLACH ALLDCKTLTLTELGRNLPTKAR TKHNIKRIDRLLGNRHLHKERL AVYRWHASFICSGNTMPIVLVD WSDIREQKRLMVLRASVALHG RSVTLYEKAFPLSEQCSKKAHD QFLADLASILPSNTTPLIVSDAG FKVPWYKSVEKLGWYWLSRV RGKVQYADLGAENWKPISNLH DMSSSHSKTLGYKRLTKSNPIS CQILLYKSRSKGRKNQRSTRTH CHHPSPKIYSASAKEPWVLATN LPVEIRTPKQLVNIYSKRMQIEE TFRDLKSPAYGLGLRHSRTSSS ERFDIMLLIALMLQLTCWLAGV HAQKQGWDKHFQANTVRNRN VLSTVRLGMEVLRHSGYTITRE DLLVAATLLAQNLFTHGYALG
21593	51961	A	21721	1	3285	
21594	51962	A	21722	1095	1188	
21595	51963	A	21723	568	1263	
21596	51964	A	21724	2	1688	
21597	51965	A	21725	1456	2046	SKGKVAIVSSHQEVRASPRRSP LGSEERPGPHTSRQAAGQPHPG TCSSVHCQGSWGLQTQNSEVIH DGDVEAISVGEDAAPGPRVHG ADLGQEEEAFR*VVMGGLPDR DSALAPVPEPMHRGWAVRAAE GAVQNDPVGGSERSWGAGSHS QPFSHRPAPHTRGLAQAQTEAA GEGAVPEVHRGAVLAGVRAPG WAQP
21598	51966	A	21726	335	595	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARIHGSFADAE*I L\WTGGDNESVS/MR*FFRPLER DLYNRIWHEIGLLLVSLL
21599	51967	A	21727	80	428	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNGLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMTNF
21600	51968	A	21728	622	1281	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21601	51969	A	21729	1066	1827	VPQAKGNNVVITSYMTNRGFF EDKKATFAPSFLMNIKGNKTSV VKNSILEQGQLTWLQVAKRAG LGGGQSGRTVLRERVRIEIAST HIALQHAIVTGDAVGMDDIPQE ARQYRHNQAYAYSIQGDGAED DDERIAFASHTIQECRSQGPGG YPFKIYSSRKDRIPISQSLLESHF TVHEETAPDLETTG*PGCKDHG NLCC/LSSVKLRYSMYRIKAGL WMTHPG*RTYWV
21602	51970	A	21730	1	1326	
21603	51971	A	21731	1	1971	
21604	51972	A	21732	1	1626	
21605	51973	A	21733	1	1810	
21606	51974	A	21734	305	442	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARIHGSFADAE
21607	51975	B	21735	1	1938	
21608	51976	A	21736	531	669	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE
21609	51977	A	21737	80	428	RWLATPYLTVKLSLLPNLAVTC QPKREQNITSNESTDC*VIVTST KSDSLYTVGMLALSVRAIRCPL YLLTGLISVSKNGLWYCELQSH YTVVLLLFMRKRSRFQSNVQR KLMTNF
21610	51978	A	21738	10	426	
21611	51979	A	21739	314	451	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE
21612	51980	A	21740	1	1139	MWGIGSRTPIYNKILVYSSPEVS CEKPKYVKSQTSTHTGFESHKR YIFYLRLVGKNLHVSAMGLGK SQERRKKALKSQPQQPADSFPS LPTVEGLTTSGEVAAGFWLSGE ALSSC*LLSASVHLLLACLGMG KCSCSGFWLYF
21613	51981	A	21741	306	444	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21614	51982	A	21742	189	1089	HHTAHCQ*CWL*S/DHGINPLRS WVGTG*V/GVRGKVQYADLGA ENWKPISNLHDMSSSHSKTLGY KRLTKSNPISCQILLYKSRSKGR KNQRSTRTHCHHPSPKIYSASA KEPWVLATNLPVEIRTPKQLVN IYSKRMQIEETFRDLKSPAYGL GLRHSRTSSSERFDIMLLIALML QLTCWLAGVHAQKQGWDKHF QANTVRNRNGSLLTNWPSVPP TIKEEENSEEELAAATTSKEQEP IGTDLDAVRTPEPLEEFPKREDQ EGSPPETSLPYKWVVEAANLLI PAVGSSLSEALDLIES
21615	51983	A	21743	1	1135	
21616	51984	A	21744	80	430	RWLATPYLTVKLSLLPNLAVTC QPKREQNITSNESTDC*VIVTST KSDSLYTVGMLALSVRAIRCPL YLLTGLISVSKNGLWYCELQSH YTVVLLLFMRKRSRFQSNVQR KLMTNF
21617	51985	A	21745	80	430	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNDLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMTNF
21618	51986	A	21746	773	1015	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADASF STDLYHGTLKPASLTMSGVVLL GRMLARSARNWS
21619	51987	A	21747	391	527	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE
21620	51988	A	21748	671	1030	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE*I LGDGW*Q*VRVER*FFRPLERD LYNRILACPLINT*PTPVVRLKP *TVWSMGPVVGTPARPIRTSGA CWWCW
21621	51989	A	21749	221	478	AEQDCTILPVLRHFTFFKSRKVS SICIRFE*ILTSCLGVRISTGKLV ARTHGSFADDQTLFFMTLAVS GELWTPSPWRPNSIRTS
21622	51990	A	21750	590	940	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNDLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMTNF
21623	51991	A	21751	473	613	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARIHGSFADADT

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21624	51992	A	21752	342	1459	SFLWRFRLRGGSERFCLAGIPSA SGV*NIPSASIRSIND*KY*VCKR T*CVGQLAA\ENADGTVAEYN GYHVVFALAGSPKDADDTSIY MFYQKVGDNSIDSWKNAGRVF KDSDKFDANDPILKDQTQEWS GSATFTSDGKIRLFYTDYSGKH YGKQSLTTAQVNVSKSDDTLKI NGVEDHKTIFDGDGKTYQNVQ QFIDEGNYTSGDNHTLRDPHYV EDKGHKYLVFEANTGTENGYQ GEESLFNKAYYGGGTNFFRKES QKLQQSAKKRDAELANGALGII ELNNDYTLKKVMKPLITSNTVT DEIERANVFKMNGKWYLFTDS RGSKMTIDAKSTLLESTEGSMT PPMTATEPFLRFLKGEIAQPKPH
21625	51993	A	21753	2094	2201	
21626	51994	A	21754	81	1080	HHTAHCQ*CWL*S/DHGINPLRS WVGTG*V/GVRGKVQYADLGA ENWKPISNLHDMSSSHSKTLGY KRLTKSNPISCQILLYKSRSKGR KNQRSTRTHCHHPSPKIYSASA KEPWVLATNLPVEIRTPKQLVN IYSKRMQIEETFRDLKSPAYGL GLRHSRTSSSERFDIMLLIALML QLTCWLAGVHAQKQEHPLWSL ALVRRRSPAQSPHVGTGSSGST GCSSQAPCMKSNNALIVILGTV TLDAVGIGLVMPVLPGLLRDIV HSDSIASHYGVLLALYALMQFL CAPVLGALSDRFGRRPVLLASL LGATIDYAIMATTPVLWIYPLV
21627	51995	A	21755	80	430	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNDLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMTNF
21628	51996	A	21756	1	593	MGVNDLWQILEPVKQHIPLRNL GGKTIAVDLSLWVCEAHPVKK MMGSVMKKHLRDFADFGTTIK QDFRLLGQTSVDRLLQLSQGQ AAYPIPDDQVQSVLISMLLIAL MLHLTCGLAGVHAQKQGWDK HFQANTVRNRNVLSTVRLGME VLRHSGYTITREDSLVAATLLT QNLFTHGYVLGKL*GDLSVLSL
21629	51997	A	21757	410	547	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARIHGSFADAE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21630	51998	A	21758	719	814	AGLFKSRKVSSICIRFE*ILTSCL GVRIFNR
21631	51999	A	21759	1	1596	
21632	52000	A	21760	80	430	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNDLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMTNF
21633	52001	A	21761	1343	1480	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE
21634	52002	A	21762	2	151	
21635	52003	A	21763	258	396	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE
21636	52004	A	21764	1	3081	
21637	52005	A	21765	449	586	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE
21638	52006	A	21766	563	2042	
21639	52007	A	21767	1001	1093	
21640	52008	A	21768	1814	1870	
21641	52009	A	21769	2760	3723	HHTAHCQ*CWL*S/DHGINPLRS WVGTG*V/GVRGKVQYADLGA ENWKPISNLHDMSSSHSKTLGY KRLTKSNPISCQILLYKSRSKGR KNQRSTRTHCHHPSPKIYSASA KEPWVLATNLPVEIRTPKQLVN IYSKRMQIEETFRDLKSPAYGL GLRHSRTSSSERFDIMLLIALML QLTCWLAGVHAQKQGWDKHF QANTVRNRNVLSTVRLGMEVL RHSGYTITREDLLVAATLLAQN LFTHGLFGPSVDAPPPKRGFKR PKLPELRLQRFFGGVITPPLESY SLPSDPVHLFPPRRPPRQLTASP LRARAPYECSSCKDA
21642	52010	A	21770	860	3503	
21643	52011	A	21771	4597	6030	
21644	52012	A	21772	1513	3464	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE
21645	52013	A	21773	1	453	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21646	52014	A	21774	1	1526	MSSSHSKTLGYKRLTKSNPISC QILLYKSRSKGRKNQRSTRTHC HHPSPKIYSASAKEPWVLATNL PVEIRTPKQLVNIYSKRMQIEET FRDLKSPAYGLGLRHSRTSSSE RFDIMLLIALMLQLTCWLAGV HAQKQGWDKHFQANTVRNRN CKMATLKEKLIAPVAEE\EANS\ PNNKIT\VVGV\GQVGMA\CAISI LGKVSWPDEL\ALVGCFWEDK LKGGNDGSFQHGELIFFQTPKN CGQDKGLFWGPPNS*RFVSW*L AGSPVQPRRGRIRLKSWVPEK WLMVFQIPLFLKIV\KYSP*FAS* LVVSHPV\DIPTYVT\WETKVGL PKHRVIGSGCNLDSARFRYLMA EK\LGIHPS\SCHGW/IFWGEHG DSSVAWCWNGVNVAGVSLQE LNPEMGTDNDSENWKEVHKM VVESAYEVIKLKGYTNWAIGLS VADLIESMLKNLSRIHPVSTMV KGMYGIENEVFLSLPCILNARG LTSVINQKLKDDEVAQLKKSA DTLWDIQKDLKDL
21647	52015	A	21775	2	355	
21648	52016	A	21776	2	178	
21649	52017	A	21777	1	888	
21650	52018	C	21778	127	255	
21651	52019	A	21779	1	1824	
21652	52020	A	21780	330	476	
21653	52021	A	21781	452	500	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21654	52022	A	21782	3	1584	DAWAAVSRGDEPGWGSGSWR LLQHWGVSCWSDPKRFSSALQ GYIITDWCAPFNKRIWKREQPE ETFPNTETNGEFGK\RPAEDME EEQAFKRSRNT\DEMVEL\RILL\ QSKNA\GAVIGKGGKNIKALRT DYNASVSVP\DSSVPERILCISA DIETIGEILKKIIPTLEEGLQLPSP TATSQLPLESDAVECLNYQHYK GSDFDCELRLLIHQSLGREGIIG GQRCLKSKELRGGTLQTTIKLF QECCPHSTDRVVLIGGKPDRFV\ ECIKIILDLISESPIKGR\AQPYDP NFYGWKPMDYG\GFTMMFDD RRGRPVGFPMRGRGGFDRMPP GRGGRPMQPYRRDYDDMSPRR GPPPPPPGRGGRGGSRARNLPL PPPPPPRGGDLMAYDRRGRPGD RYDGMVGFSADETWDSAIDTW SPSEWQMAYEPQGGSGYDYSY AGGRGSYGDLGGPIITTQVTIPK DLAGSIIGKGGQRIKQIRHESGA SIKIDEPLEGSEDRIITITGTQDQI QNAQYLLQNSVKQYSGKFF
21655	52023	A	21783	211	1635	KNMETEQPEETFPNTETNGEFG KRPAEDMEEEQAFIRSRNTDEM VELRILLQSKNA\GAVI\GKGGK NIKALRTDYNASVSVPDSSGPE RI\LSISADIETIGEILKKIIPTLEE GLQLPSPTATSQLPLESDAVECL NYQHYKGSDFDCELRLLIHQSL AGGIIGVKGAKIKELRENTQTTI KLFQECCPHSTDRVVLIGGKPD RVV\ECIKIILDLISESPIKGRAQP YDPNFYDETYDYGGFTMMFDD RRGRPVGFPMRGRGGFDRMPP GRGGRPMPPS\RRDYDDMSPRR GPPPPPPGRGG/RGLGSRARNLP LPPPPPPRGGDLMAYYKRGRP\ GDPYDGMVGFSADETWDSPID TWSP\SEWQMAYEPQGG\SG\Y DYSY/AQGGRGSYGDLGGPIITT QVTIPKDL/ALGSIYWKKGGQR\ IKQIPS*VGELSIKIDEPL\EGSED \RIITITG\TQDQIQ\NAQYLLQ\N SVKQYADVEGF
21656	52024	A	21784	860	1201	TISEPPALILLPIAVPSFSTTCRLP EDIIVVSAFPPLLIFCVPLLILVP VAMP*LLIFCVPPLIMVFVAFPA TSITPPLSIRVASALALVKTDIVP LSLIIVLFAEPYAFMSK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21657	52025	B	21785	1	3750	
21658	52026	A	21786	1	1350	
21659	52027	A	21787	189	1939	TAMAGRMPCAEVISGSATRPD GPKALFKPIGRPHQAIRPINKPP AAPPKQAVTNGFMRGRVPPKT LTVPSESSLAPMTLVVIVVKEA LPPAKIFSTPVPYQPTRRAPDAE PLSASKTPSVYLVNFVVSPEDL RKLTVDVLPALRANTRALWQV EVSAFPSFMTQATPATQPLINAE PAVAAPTEQNPQVGPVMPGVQ GADAPVVAQNGPSRDVKLTFA PIAPPPGSMVLRGLNPNGSLEFG MRSDEVVTKAMVQLELTPWH GYGCQCPFLPVKYLYAAIGFSV MIEALNQLAIFNRRRFLSANQT LRQRTTEAVMRLLSGQKEDAE LDAETASMLVDHGNQQIFNPQ ERRMIERVLNLNQRTVSSIMTS RHDIEHIDLNAPEEEIRQLLERN QHTRLVVTDGDDAEDLLGVVH VIDLLQQSLRGEPLNLRVLIRQP LVFPETLPLLPALEQFRNARTHF AFVVDEFGSVEGIVTLSDVTETI AGNLPNEVEEIDARHDIQKNAD RSWTGN/GLLPLGDCRL*QASP TGCINRRGS\HYGYPTLYEFRKR FLTPGTVCKRCDQRGDAMRVQ VQWVFYTYILPLANE
21660	52028	A	21788	558	1563	TNNRL*K*GNN**LTNQKKSRT RWIHSRILPEAGC/GIASVGRNN CGLWRFTPAKAISWGKIHPVFQ RQILRVLSQTLFPN/MSLGRNLG YGLKMFGVPRAELKPRFKEALP MVNLEGFEDRFVDQISGGQQQ RVALARALILKPKVLLFDEPLS NLDANLRRSMRDKIRELQKQF DITSLYVTHDQSEAFAVSDTVL VMNKGHIMQIGSPQDLYRQPA SRFMASFMGDANLFPATFSDG YVDIYGYHLPRPLHFGTQGEG MVGVRPEAITLSDRGEESQRCV IRHVAYMGPQYEVTVEWHGQE ILLQVNATRLQPDVGEQYYLEI HPYGMFVLADAA
21661	52029	A	21789	201	312	CSWHDRFPDWKAGTHLLARG* QLSLPVWLCPVLKLS
21662	52030	A	21790	925	2388	
21663	52031	A	21791	1	759	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21664	52032	A	21792	1	1086	MEKKITGYTTVDISQWHRKEHF EAFQSPAQCTKNQTVQLDITAF LKTVKKNKHKFYPAFIHILARL MNAHPEFRMAMKGVPGGDSV KNTSRVWSGNERDQKLLTENA LNDLIPSFLLTGQQTPALGRRVS GVIEIADGSRRRKAAALTESDY RVLVGELYDEQMPPLSRLGND YRPTSAHPQKRRYASRLQNEFA GNISALADAENISRVRDVNLLL EVLGVDSVEKTFRVWSGNERD QELLMEDALDDLIPSFLLTGQQ TPAFGRRVSGVIEIADGSRRRK AAALTESDYRVLVGELDDEQM AALSRLGNDYRPTSAYERGQR YASRLQNEFAGNISALADAENI SRKIIPRCINS\AKLP
21665	52033	A	21793	1	935	MLRDLLKNVDLKGFEPDVRILL TKYSNSNGSQSPWMEEQIRDA WGSMVLKNVVRETDEVGKGQI RMRTVFEQAIDQRSSTDNEGAP VIPKHTLNTQPVEDTSLSTPAAP MVDSLIARVGVMARGNAITLP VCGRDVKFTLEVLRGDSVEKTS RVWSGNERDQELLTEDALDDLI PSFLLTGQQTPAFGRRVSGVIEI ADGGSSRSKKRRRGCEGGRR/V RQGCPDQKHPAAFSVSGGKIHL SGRTPVEKRPRLPQPRDLGARA FAACRGSRGRPWNWLPAALRL HADLGCVRGGGGGWPGANPY PAPASSTC
21666	52034	A	21794	181	923	QHAIVTGDAVGMHHIPQEARQ YRHNQAYAYSIQGDGAEDDDE RIVRFHTRCLTEAFEKLQCGGV VNQLSRRGNNQHISSTYDINRA DTQVRRAVNNYDIIVMSNSFN\ ASRSIRCGSVGSLPSSNLPINSVS IRCRAR/SG/EE*CQAPASKWAL LHK*HRPFPQDRKAGECLLHEY EDLVPIRDTLRLFPGGRYLPRA KHVAPSEPDPEQDEQKLRFCKR HLYGQQPRSPVEIRLQHVAIAY PTHHAYD

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21667	52035	A	21795	178	798	IRLEPFKINVLEQITKHIEKLQCG GVVKQLSRRGNNQHISSTYDIN RADTQVRRAVNNYDIIVMSNSF N\ASRSIRCGSVGSLPSSNLPINS VSIRCRAR/SG/EE*CQAPASKW ALLHK*HRPFPQDRKAGECLLH EYEDLVPIRDTLRLFPGGRYLPR AKHVAPSEPDPEQDEQKLRFCK RHLYGQQPRSPVEIRLELVAIA YQTHHA
21668	52036	A	21796	499	972	
21669	52037	A	21797	3	1141	SRVKLGQSSESQVAALKTREPM NIATLEVLVLKGLRVCFVKVNH PKGPASMYPGWVPILYIHAEDP LLPFYLGEKEDVTYAIKPTCWP GLDIIPSCLALPRIETELMGKFD EGKLPTDPHLMLRLAIETVAHD YDVIVIDSAPNLGIGTINVVCAA DVLIVPTPAELFDYTSALQFFD MLRPLLKNVDLKGFEPDVRILL TKYSNSNGSQSPWMEEQIRDA WGSMVLKNVKEFAGNISALAD AENISRKIITRCINTAKLPKSVV/ ALFSHPGELSA\GDALQKAFTD KEELLKQQASNLHEQKKAGVIF EAEEVITLLTSVLKTSSASRTSL SSRHQFAPGATVLYKGDKMVL NLDRSRVPTECIEKIEAILKELE
21670	52038	A	21798	1	617	LEPASLSIPNLLLHPRGLRAITIA VFGKQNTYIRLEPFKINVLEQIT KHIEKLQCGGVVKQLSRRGNN QHISSTYDINRADTQVRRAVNN YDIIVMSNSFN\ASRSIRCGSVGS LPSSNLPINSVSIRCRAR/SG/EE* CQAPASKWALLHK*HRPFPQD RKAGECLLHEYEDLVPIRDTLR LFPGGRYLPRAKHVAPSEPILSC
21671	52039	A	21799	181	953	QHAIVTGDAVGMDDIPQEARQ YRHNQAYAYSIQGDGAEDDDE RIVRFHTRRLTFKINVLEQITKHI EKLQCGGVVKQLSRRGNNQHI SSTYDINRADTQVRRAVNNYDI IVMSNSFN\ASRSIRCGSVGSLPS SNLPINSVSIRCRAR/SG/EE*CQ APASKWALLHK*HRPFPQDRK AGECLLHEYEDLVPIRDTLRLFP GGRYLPRAKHVAPSEPDPEQDE QKLRFCKRHLYGQQPRSPVEIR LQHVAIAYQTHHAYD
21672	52040	A	21800	1	798	
21673	52041	A	21801	1	1782	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21674	52042	A	21802	666	1131	KGRGTYGNERDQELLT\EDALD DLIPSFLLTGQQTPAFGRRVSGV IEIADGSRRRKAAALTESDYRV LVGELDDEQMAALSRLGNDYR PTSAYERGQRYASRLQNEFAG NISALADAENISRKIITRCINTRQ LPKSVVGFFSHPGELSARSGDA
21675	52043	A	21803	1	3297	
21676	52044	A	21804	1	898	
21677	52045	A	21805	1	1977	
21678	52046	A	21806	1	1929	
21679	52047	A	21807	181	755	QHAIVTGDAVGMDDIPQEARQ YRHNQAYAYSIQGDGA\GMTM SALLDFIHGA***YIRCGSVGRL PSSNLPINSVSIRCRAR/SG/EE*C QAPASKWALLHK*HRPFPQDR KAGECLLHEYEDLVPIRDTLFL FPGGRYLPRAKHVAPSEPDPEQ DEQKLRFCKRHLYGQQPRSPVE IRLQHVAIAYQTHHAYD
21680	52048	A	21808	181	456	QHAIVTGDAVGMDDIPQEARQ YRHNQAYAYSIQGDGAEDDDE RIVRFHTRCLA*SRRAVNNYDII VMSNSFNGQSEHQVWIGGQFT FIKFAH
21681	52049	A	21809	1	780	
21682	52050	A	21810	1	1050	
21683	52051	A	21811	5	735	PPAAP/MGNLLMARVGVKARG KAHYLPLLRGESVRKTSRVGSG NERDQELLTEDALDDLIPSFLLT GQQTPAFGRRVSGVIEIADGSR RRKAAALTESDYRVLVGELDD EQMAALSRLGNDYRPTSAYER GQRYASRLQNEFAGNISALADA ENISRQIITRCINTAKLPKSVVAL FSHPGELSARSGDALQKAFTEK RTLKQQALTSEQKKRGI/YEAE EVSSSLSPQGRLSNRSASKDMY

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21684	52052	A	21812	1	887	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKAYKETK AVGSGNERDQELLTEEAWNDL ILSFLLTGQQTPAFGRRVSGVIEI PDGSRRRKAAALPKSDYRVLV GELDDEQMAALSRLGNDYRPT SAYERGQRYASRLQNEFAGNIS ALADAENISRKIITRCINTAKLP KSVVALFSHPGELSARSGDALQ KAFTDKEELLKQQASNLHEQK KAGVIFEAEEVITLLTSVLKTSS ASRTSLSSRHQFAPGATVLYKG DKMVLNLDRSRVPTEC/IEKIEA ILKELEKPAP
21685	52053	A	21813	345	921	RWRLQNLSFCSSCSGSGSEGAT CFARGSAYELGQRYASRLQNA FAGKISALADAEIFSRKII\TRCIN TAKLLKSVVALFSHPVELSARS GDALQKAFTDKEELLKQQASN LHEQKKAGVIFEAEEVITLFTSV LKTSSASRTSLSSRHQFAPGAT VLYKGDKMVLNLDRSRVPTEC IEKIEAILKELEKPAP
21686	52054	A	21814	1	1989	
21687	52055	A	21815	6	311	
21688	52056	A	21816	3	848	PGGDSVKNTSRVWSGNERDQK LLTENALNDLIPSFLLTGQQTPA LGRRVSGVIEIADGSRRRKAAA LTESDYRVLVGELYDEQMPPLS RLGNDYRPTSAHPQKRRYASRL QNEFAGNISALADAENISRVRD VNLLLEVLGVDSVEKTFRVWS GNERDQELLMEDALDDLIPSFL LTGQQTPAFGRRVSGVIEIADG SRRRKAAALTESDYRVLVGEL DDEQMAALSRLGNDYRPTSAY ERGQRYASRLQNEFAGNISALA DAENISRKIIPRCINS\AKLP
21689	52057	A	21817	1	969	
21690	52058	A	21818	1	1614	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21691	52059	A	21819	1	832	MDDIPQEARQYRHNQAYAYSI QGDGAEDDDERIVRFHTRVTV DSDTLASDAARLTCRHGLARD VKFTLEVLRGDSVEKTSRVWS GNERDQELLTEDALDDLIPFFLL TGQQTPAFGRRVSGVIEIADGS RRRKAAALTESDYRVLVGELD DEQMAALSRLGNDYRPTSAYE RGQRYASRLQNEFAGNISALAD AENISRKIITR\CINT\AQLAKSG VALFSHPGELSAPSGDAL*KAF TD*EEFL*PQGSNLY\EQKKAG\ VIFGS*KKFSLFLTSVV
21692	52060	A	21820	678	1338	TLRQTKPDNSAEIADGSRRRKA AALTE\SDYRVLVGELDDKQM AALSRLGNDYRPTSAYERGQR YASRLQNEFAGNISALADAENI SRKIITRCINTAKLPKSVVALFS HPGELSARSGDALQKAFTDKEE LLKQQASNLHEQKKAGVIFEAE EVITLLTSVLKTSSASRTSLSSR HQFAPGATVLYKGDKMVLNLD RSRVPTECIEKIEAILKELEKPAP
21693	52061	A	21821	1	1809	
21694	52062	A	21822	2	1010	
21695	52063	A	21823	284	2177	
21696	52064	A	21824	1	1296	
21697	52065	B	21825	1	1044	
21698	52066	A	21826	637	1073	IRLEPFKINVLEQITKHIEKLQCG GVVKQLSRRGNNQHISSTYDIN RADTQVRRAVNNYDIIVMSNSF N\ASRSIRCGSVGSLPSSNLPINS VSIRCRAR/SG/EE*CQAPASKW ALLHK*HRPFPQDRKAGECLLH EYEDLYPSVIH
21699	52067	A	21827	1	2403	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21700	52068	A	21828	1471	3186	LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFTPVI GVAAIKTGTTVHIVSSSSLLGG DHGPSRIGGLLLVCDYGPLVSS SGISGPTRIVGLIISLGPGYHLCF RSDYRTGITDPLYIGDATIRVSL RVYSLPSRSRIEHVVANCGMIP KQQQNEKYQVPQFDQSTIKNIE SAKGLDVWDSWPLQNADGTV AEYNGYHVVFALAGSPKDADD TSIYMFYQKVGDNSIDSWKNA GRVFKDSDKFDANDPILKDQTQ EWSGSATFTSDGKIRLFYTDYS GVMARGNAITLPVCGRDVKYT LEVLRGDSVEKTSRVWSGNER DQELLTEDALDDLIPSFLLTGQ QTPAFGRRVSGVIEIADGSRRR KAAALTESDYRVLVGELDDEQ MAALSRLGNDYRPTSAYERGQ RYASRLQNEFAGNISALADAEN ISRKIITRCINTAKLPKSVVALFS HPGELSARSGDALQKAFTDKEE LLMQQASNLHEQKKAGVIFEA EEVITLLTSVAKTSSASRTSLSS RHQF\APGATV\LYKGDKMVLN LDMSR\VQLECLDRLHACRSTL
21701	52069	A	21829	158	926	AGPVIQNYVNTQPV/EETSYSTP AAPMVDSLIARVGVMAPGNAI TLPVCGRDVKFTLEVLRGDSVK KTSRVWSGNERDQELLTEDAL DDLIPSFLLTGQQTPAFGRRVSG VIEIADGSRRRKAAALTESDYR VLVGELDDEQMAALSRLGNDY RPTSAYERGQRYASRLQNEFAG NISALADAENISRKIITRCINTAK LPKSVVALFSHPGELSARSGDA LQKAFTDKEELLKQQGGSSRV GDNSIDSWKTRGRVL
21702	52070	B	21830	1	3774	
21703	52071	B	21831	1	1495	
21704	52072	A	21832	556	1622	
21705	52073	A	21833	1	2616	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21706	52074	A	21834	1412	3310	SVTSCLKVTSVCLTSAAASCRS VLMRSTAELQCASHTLRKRKA ARRLISLMMTARKARKITRRW RIGEAADLVGVSSQAIRDAEKA GRLPHPDMEIRGRVEQRVGYTI EQINHMRDVFGTRLRRAEDVFP PVIGVAAHKGNDPQGTASMYH GWVPDLHIHAEDTLLPFYLGEK DDVTYAIKPTCWPGLDIIPSCLA LHRIETELMGKFDEAQPNLGIG TINVVCAADVLIVPTPAELFDY TSALQFFDMLRDLLKNVDLKG FEPDVRILLTKYSNSNGSQSPW MEEQIRDAWGSMVLKNVVRET DEVGKGQIRMRTVFEQAIDQRS STDTSLSTPAAPMVDSLIARVG VMARGNAITLPVCGRDVKFTL EVLRGDSVEKTSRVWSGNERD QELLTEDALDDLIPSFLLTGQQT PAFGRRVSGVIEIADGSRRRKA AALPE\SNYGVLVAELDDEQMP AYPRLGNDYRPTSAYERGQRY ATRLQNEFAG\NIS\ALADAENIS \IITRCINTAKLPKSVVALFSHPG ELSARSGDALQKAFTDKEELLK QQASNLHEQKKAGVIFEAEEVI TLLTSVLKTSSASRTSLSSRHQF APGATVLYKGDKMVLNLDRSR VPTECIEKIEAILKELEKPAP
21707	52075	A	21835	783	2371	
21708	52076	A	21836	3236	4718	
21709	52077	A	21837	1	2481	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21710	52078	A	21838	2450	3963	LLTAPITGGIGTINVVCADDVMI VPTPAELFDYTSALQFFDMLRD LLKNVDLKGFEPDVRILLTKYS NSNGSQSPWMEEQIRDAWGSM VLKNVVRETDEVGKAAPMVDS LIARVGVMARGNAITLPVCGRD VKFTLEVLRGDSVEKTSRVWS GNERDQELLTEDALDDLIPSFLL TGQQTPAFGQR\VSGVKEIADGI RRRKAAALTE\SDYRVLVGELD DEQMAALSRLGNDYRPTSAYE RGQRYASRLQNEFAGNISALAD AENISRKIITRCINTAKLPKSVV ALFSHPGELSARSGDALQKAFT DK\EDLLKQQASNLHGAEKSW GCYFEAEEVITLLTSVLKTSS\A SRTSLSSRHQFAPGATVLYKGD KMVLNLDRSRVPTEYRYGVFL NVLLPATKYFQLHDPSLRNMEL NYSLASEDLVLKGLRVLLVEG NDPQGTASMYHGWVPDLHIHA EDTLLPFYLGEKDDVTYAIKPT CWPGLDIIPSCLALHRIETEYNG
21711	52079	A	21839	1573	2858	EPVFEQAIDQRSSTDTSLSTPAA PMVDSLIARVGVMARGNAITLP VCGRDVKFTLEVLRGDSVEKTS RVWSGNERDQELLTEDALDDLI PSFLLTGQQTPAFGRRVSGVIEI ADGSRRRKAAALTESDYRVLV GELDDEQMAALSRLGNDYRPT SAYERGQRYASRLQNEFAGNIS ALADAENISQ*ICWKYFCAG*C GKYF\RKIITRCINTAKLPKSVV ALFSHPGELSARSGDALQKAFT DKEELLKQQASNLHEQKKAGV ISPPEEVITLLTSEIKTSSASRTSL SSRHQFAPGATVLYKGDKMFIT VKIAKRSQAPCMKSNNALIVIL GTVTLDAVGIGLVMPVLPGLLR DIVHSDSIASHYGVLLALYALM QFLCAPVLGALSDRFGRRPVLL ASLLGATIDYAIMATTPVLWIY PLVNSPSC
21712	52080	B	21840	63	368	
21713	52081	A	21841	189	204	SLPSGIKPQSSSKASSRIQVAPT M*SLPRQPLAWPSGHEACPQG
21714	52082	A	21842	153	370	LIAGAFRKASGGNNIFRRPKTL* LRRQPR*PQKSTPRRNKLGHYA IIKFPLTTESAVKKIEETNTLVFT VLV

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21715	52083	A	21843	842	1770	CTPEKCLPAVHRRNWLRNAEPP VWKRHLSPICRKRQGRATKPK RRPWYTTPPTRRVRDVALRPYS RH/GRQPHAKKKIRMSLTFRRP KTLRLRRQPRYPRKSTPRRNKL GHYAIIKFPLTTESAVKKIEENN TLVFTVDVKANKHQIRQAVKK LYDSDVAKHTEERRHDEQNNIL TREAKNRNDNTRNRARTETNT ETQKNSGYQALISFHSYYSDTS DNKAHLVSYQSGQCTYDRLG WNLLIRMTCRSLQHTYDIQSTQ IASCFHPVSVRVNLRLYCANYG GISAVFMPLRKELLILTRSSNSK VSQLRI
21716	52084	A	21844	353	605	EMAPKAKEAPAHPKAEAKAKA LKAKKAVLKGVRSHT/RKKKIR MSLTFRRPKTLRLRRQPRYPRK STPRRNKLGHYAIIKFPLTT
21717	52085	A	21845	301	946	PGSYLKPLSWTVALSLRPGFMS RWPCQRLTWQRRSVTQASGAS GASLCASRLPRDKTAPKAKEAP APPKAEAKAKALKPKKAVVER CPHTHAKKRIRMSPTFRRPKTL RLRRQPRYPRKSTPRRNKLGHY AIIK\FPLTTE\SAGKKNKKNNTP LVHCGC*RPTRHQI\RQAVKK\L YDSDV\AKVTTLICPDKEKKAY VRLAPDYDALDVANKIGII
21718	52086	B	21846	12	115	
21719	52087	A	21847	1397	1489	
21720	52088	A	21848	519	747	SGSVISPIAAT*YRIFAVL*SVQ* **AGPGDLSGDGELP*SVAIQPN VFIAVSSITCNWLPFGKCGSTY WMCQSM
21721	52089	A	21849	185	456	QHQPLEVASQWKVCSVSVKLL SQSSDVTRVPLEGLDRLSERSG SLSVL*SGILWALDAASQLVSL LP*LTRYHDPRVSSL/SSTYV*SP
21722	52090	A	21850	789	1086	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21723	52091	A	21851	1	766	SGRKEANY\YGSLTQAGTVSLG LDAEGQEVFVPFSAVLPMVAP NDLVFDGWDISSLNLAEAMRR AKVLDWGLQEQLWPHMEALR P/LGLAVYIPEFIAANQSARA\D N\LIPGSRAQQLEQIRRDIRDFRS SAGLDKVIVLWTANTERFCEVI PGLNDTAENLLRTIELGLEVSP\ STLF\AVASILGGLCLSFNGSPQ NTLVPGALELAWQHRILVGGD DFKSGQTKVKSVLVDFLIGSGL KTMSIVSYNHLGNNDGEN
21724	52092	A	21852	2	2122	WKSWMVFTAMKLVKAHHRLK LRLKGYLPVTCLEGTRNQRIAA TIRHNRARGRHQITAMSEIVRE LSQLGWDDNKIGKELGMDSDE VLRLKQINGLQELFADRQYSRA WTLKLAQAFSCCQQRRFLLGK TETNQFMWEGIGAKHRQRNRR YAVLLRQPLAKLNIIQARYPNQ HRQHAGECNPHCQAGGDIVDR CPARCFTKGDSKDGSPPQATWP FHNSATMTAKRLSEASQCGSK KSILRERIIYRPSITRYPFQSTMN HPLPEQTLGCIATDYGSSPSPDR SPGPAHYYWTDHSTANIRYQV AAEENGEYTYVERVKIPLDHGT LLIMERATQADWQLEQIRRDIR DFRSSAGLDKVIVLWTANTERF CEVIPGLNDTAENLLRTI/D/RSV WEVSPSTLFAVASILEGCAFLN GSPQNTLVPGALELAWQHRVF VGGDDFKSGQTKVKSVLVDFLI GFRLQRP/SSIVSYNHLG\NNDG ENLSAPLQFRSKEV\SRSNVVD DMVA\SNP\VLYTPGEEPDHCV VIKYVPYVGDS*RAL\DEYTSEL MLGGTNTLVL\HNTC\EDSLL\A APIML\DLGAA*PSCCQRVTFLA LDIGTPSRRPFHPVLVPAQAFFF KGATLSPPGKP/VLVNAAFSAS AAAIENI\LRACVGLPPQNHMLL EHKMERPGPSLKRVWTPWLPP YPMLNKKGPGSRCQPMAAPVD
21725	52093	A	21853	1	1908	
21726	52094	B	21854	1	1833	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21727	52095	A	21855	1	749	MFQLMKASSGGEAACMPAGL MENYKHTTVLLDEAVNGLNIR PDGIYIDGTFGRG\LGEEGRLLA IDRDPQAIAV/AKTIDDPRFSIIH GPFSALGEYVAERDLIGKIDGIL LDLGVSSPQLDDAERGFSFMRD GPLDMRMDPTRGQSAAEWLQT AEEADIAWVLKTYGEERFAKRI ARAIVERNREQPNDPELEEIEQA LKSSLNVLAPGGGVSIISFHSLE DRIVK/RFMREHQFCVVVRSGV GLKT*SVR
21728	52096	A	21856	532	1418	CFASGFIGELRKNIVGFIEQDHT RGLVFRLTPGRTLRAESLNLVIC LPMNFQPYDSDADWVITGVPF DMATSGRAGGRHGPAAIRQVS TNLAWEHNRFPWNFDMRERLN VVDCGDLVYAFGDAREMSEKL QAHAEKLLAAGKRMLSFGGDH FVTLPLLRAHAKHFGKMALVH FDAHTDTYANGCEFDHGTMFY TAPKEGLIDPNHSVQIGIRTEFD KDNGFTVLDACQVNDRSVDDV IAQVKQIVGDMP/VYLTLYNCG GPS*QFHSLRPAQSPLDRCRAR YLAPQCVPDFRTLQR
21729	52097	B	21857	64	1842	
21730	52098	A	21858	1	503	MRWLVSPIEDTGHKALLFACL ALHRACVSGHCLSPKCVGVDG RSHEMVAPGLFLDWLLDGTGV WDGTSTNVEGAQEHAVLILLII TDGVISDMEETGMPWCRLPSCP CPSSSGRGQCGLRCHGVPGWG RRMLRSHTGEEAARDIVSSFPF ESSATMSEEVYDPRSLYERLQE QRTGSSRTARQEAVVGSKVTV SQPGHRQETTVLEHLVQY/FILL IITDGVISDMEE/TRHAVVQASK LPMSIII/VGVGNADFAAMEFLD GDA/GMLRSHTGEEAARDI/VQ FVPFREFRNNVRGGL*PSISI
21731	52099	A	21859	2223	2363	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21732	52100	A	21860	3	693	GDDGKWMLVHRTEVIKYTLDP VWKPFTVPLVSLCDGDMEKPIQ VMCYDYDNDGGHDFIGEFQTS MSQMCEARDSVPLE\FECINPK KQRKKKNYKNSGIIILRSCKINR DYSFLDYILG\GCQLHVSPLGID F\TASNG\DPLDPSSLHYINPMG TNEYLSAIWAVGQIIQDYDSDK MFPALGFGAQLPPDWKVSHEF AINFNPTNPFCSGVDGIAQA\YS TCLPHIRFYGPT
21733	52101	A	21861	1	2231	MYSQEGNQFCNRTDCQELLPPP PAPMAHIPSGGAPAAGAAPMG PQYCVCKVELSVSGQNLLDRD VTSKSDPFCVLFTENNGRWIEY DRTETAINNLNPAFSKKFVLDY HFEEVQKLKFALFDQDKSSMR LDEHDFLGQFSCSLGTIVSSKKI TRPLLLLNDKPAGKGLITIAAQE LSDNRVITLSLACRRLDKKDLF GKSDPFLEFYKPGDDGKWMLV HRTEVVIKYTLDPVWKPFTVPL VSLCDGDMEKPIQVMCYDYDN DGGHDFIGEFQTSVF\KMCEAR DSVPLEFECINPKKQRKKKNYK NSGIIILRSCKVNQRGQARARG QVSGHTEGTDRALDLEPARPVF KSRLCHILALWPSELHLTRPQSP HLWNGDINEAEHVQGYSSLTFL CGGQGRHELTFQGLSWWENCH CELLPPTVGMQGAEDIGWGHP VLSGISVTVTPMINRDYSFLDYI LGGCQLMFTVGIDFTASNGNPL DPSSLHYINPMGTNEYLSAIWA VGQIIQDYDRPRSFLKPDPWAG TEAVTGQHVMFSVYETHVEWG RQIGLPDVANQNTRHPVKFEFQ VSHEFAINFNPTNPFCSGVDGIA QAYSACLPHIRFYGPTNFSPIVN HVARFAAQATQQRTATQYFILL IITDGVISDMEETRHAVVQASK LPMSIIIVGVGNADFAAMEFLD GDSPHAALPTRGRRQPRDIVQF
21734	52102	A	21862	694	825	QPGLSINIEAGAVPRPFARRYW GNLG*FLFLGVLRCFSSPGSPH
21735	52103	A	21863	1032	1127	FYAKAEAGDRTVA*PHKPKMF LSIHHRVAKI
21736	52104	B	21864	1	564	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21737	52105	A	21865	43	617	PIIQKVRSHTPKRAPTACTYTVS GSFSLPSPGFFSPFPHGTGSLSVS QEYLALEEWSPHISARDCTCSG LLIELPSTGIFVYGAVTLYRAPF QTLPVTHALIQALGCSP\FARRY WGNLG*FLFLGVLRCFSSPGSP H*PMDSVNDSVSKHT/EVSPFG N\PGYNGSYHLTDAYRRLARPS SPLT\PGHPPLYG
21738	52106	A	21866	2969	3593	
21739	52107	A	21867	1219	1503	HFTDGQNNRQHGCGVRRQAG KQVVCKVEHQNQYNHRCVW* ESFQVRTHGTGEPVNKTRTSQA VSHHNQSCQVDQCVPCAVIAG NVFPRHNVQGQH
21740	52108	A	21868	193	378	
21741	52109	B	21869	1	1473	
21742	52110	A	21870	3536	3926	PKMVRWLARKCWNTVSTVRC FWMAMPTPVFAPCAAIKTASA R*MSWASSR*PNRGCVKSATLR QFS*VAAMK*PPVAQ*WW\LGR NASTAGGDSGAGRSLDDGEPTP CGMGLEQKRHGNPAGCVAPSR WS
21743	52111	A	21871	140	901	MAMSKVKSITRESWILSTFPEW GSWLNEEIEQEQVAPGTFTMW WLGCTGIWLKSEGGTNVCVNL WCGTGKQSHGNPLMKQGQQM PPMAGVKKLQPNLRTTPFVLDP FAIRQIDAVLATHDHNDHIDVN VAAAVMQNCADDVPFIGPKTC VDSWIGWGVPKERCIVVKPGD VVQVTALEIHAPDAFDRTAPIT WLADQKRRRTVKG/MDDAPL* QVSYRPSTPPRCCYWSLLSSSV YYSKRPFAHGYARLCIPFMD
21744	52112	A	21872	287	392	
21745	52113	A	21873	1	492	
21746	52114	A	21874	569	1061	SGTVLDM/SEYSRVQIRKQPYLS KGYIPVRQKTKAAWLLKAVTFI DLTTLSGDDTSSNIQRLCYKAK YPIREDLLKALNMHDKVAAGF PAGQTHLKTRLEEIRLAVEDGA TEIDVVINRSLVLTGQWEG/LYS PVVYSALPCNI*HSRLFLPSGNA LLLWLWCLHS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21747	52115	A	21875	2	1072	ARSNIRMVTAFRSLPAGSSGAA RA\MSAHNRGTELDLSWISKIQ VNHPAVL\RRAEQIQARRT\VK KDWQAAWLLKAVTFIDLTTLS GDDTSFNI*RLCYKAGYPIREDL LKALNMHDKGIT\TAAVCV\YP ARV\CDAVKGTSRPAG/CVNIPV GISRAAGF\PAG\QTH\LKTRLEE I\RLAVEDGSLQKIDV\VINRSLG A*QAQWE\ALYDEIRQF\RKAC GEA\HLKTILA\TGELGTLTNVY K\ASMIAMMAGSDF\IKTSTGKE TVNATFPVAIVMLRʼAIRDFFWK TGNKIGFKPAGGIRSAKDSLAW LSLVKEELGDEWLKP\ELFRIGA ST\LLSDIER\QIYHSCGLGRYGS LFMDLSQCL
21748	52116	A	21876	3	221	
21749	52117	B	21877	49	342	
21750	52118	A	21878	1	828	
21751	52119	A	21879	1362	2405	RPPWRHWDGNSSVLVHFQLHF LLRPLQTLSLGLEEELLQRGIRA RLREHGISLAAYGTIVSAELKG GSRPCAVWWPSEPGAGRCPGN SFSCGNSQCVTKVNPECDDQED CSDGSDEAHCECGLQPAWRMA GRIVGGMEASPGEFPWQASLRE NKEHFCGAAIIN/DQPLRS*NHR FQDPTKWVAYVVRPTSAARRP APCGPSKKA/WISGWGYLK/EG LP*ASPRPAMVKPEVLQKA/DW ELLDQALCASLYGHSL/TDRMV CAGYLDGKVDSCSVLFLFRGTI SFFFSEDRNLIRYVLLYSIFVVN CISGKPQPGPPVLRALCQHPHQI DAGPQYRASCWVTVPKLQGIF
21752	52120	A	21880	600	904	SVSLLDEETALPFSWDELRLSA LLDT*AAFQEIELAFQDPQCVG LLTAP/YADAAFSGSTDIAMFLL VPILSARKPASPRSS*TFSHLATE PLPASIK*AAA
21753	52121	A	21881	393	572	
21754	52122	A	21882	165	432	PGMAVSYEKISKYPVEFLPAQA NIAGHNDAPEEREPFQW*LWLL LPNF*LQEKCSPTLCHFLSRRTQ SEFPSSTAAGNLSVSLLYPCKS
21755	52123	B	21883	1	1011	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21756	52124	A	21884	783	1234	YYRRCGAASPHGRDPVQIG*TS SQPR*SAYRN/PASVIPVARHSA RAPAILRP*VVVAERSERSIPGL RATPAEIRTTSAPSSAGVASSPE KPLIFTAIDSHTGSHWSDIIHVC AKKLQNYVPKLNASLLLTPSIY VTRTTRSGPIPPARQ
21757	52125	A	21885	249	398	GYFDIFSYDTAIPGQSAEQDAR ED*AF*MPDRAYSQPCSSLVFP KGCKK
21758	52126	A	21886	309	845	CGAREERGRGCHHVHSQLRGP GPAPGQVQQPQLVPAPVVPELP GLRGLSWQARRTRARHRQGQV QDHQPDPTVHAQLRGVQLGEA PLQLHHGD*DHRAP*GYFDIFS YDTAIPGQSAEQDARED*AF*M PDRAYSQPCSSLVFPKGCPVPG RGCAAGVQAAGAAHPPLDHPA LQPLQGR
21759	52127	A	21887	1236	2100	DLLCGRGCQGRRPRHLQPQTEL EAPEVPAERPGRGPAVAARSDP RAQAEDVPGYNPLSGKPAKQQ VHEGHHPGAPGHRRPGGAAVP AGGPHRCLPAQPARPCGGAAEP RGGPAGAH*ARGSRAAGEGQP WWPSPRLGAGPPAAPVHAAPG SHLLPGHHLPTQPSALAAAQ\PL AEEPREQ/PGAGGPQPGSPTLRG VEVVPLPHAAGGAGAVPVGGA ACPTAPHPAASAPAPVLLSQLG TQHPPRRDPPHCSCAGIQDSGW AGPPALWSLLHVAKPAQARRP CALLHPGV
21760	52128	A	21888	1931	2185	AKAFSFFRYISRVSRNRTCLSRS SMRRSFDSSNADAAFSGSTDIA MFLLVPILSARKPASPRSS*TFS HLATEPLPASIK*AAA
21761	52129	A	21889	1254	1760	
21762	52130	A	21890	1	2001	SIRRPKRARPIRIKKIPEQQG/PQ PAVLPVQTVATRDRELPQMP/P VGPETLKRDPPVRAMTIPATAA VYKPYWGATPLPIA\KPSPAG*Q *SRRFSKGYFGFD
21763	52131	A	21891	195	545	HSPGSFYSRRDAQSPAPAIRAA V*AEVQ*TPLCHDRITHFPEDW RGWQRS*F*PAACRVAGSLPVP VSPQIQHPYCRSSAQYLPCGAG LPLPGFDRLCPRSLFQGLAVTG GSCGPS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21764	52132	A	21892	825	1299	YSCRTEHPPRLATAEYRHHQRA ADAGR*RHAGVAFYPIKERYR QPEPAFSYQ/PRRWSASRNRRPS R*RMRRFPANSSTPFPPAPPLRR KRVASLIGGRMLRLTGAGIAEE RMIAPQLPECILHELTERPHPFP LGIDLILTCGERLLAIPRTTHVE
21765	52133	A	21893	1460	1810	RATHVLTWVRGTPKRAEMILG SSRSMSAAAVTVLISPATAQRW ITRAP*PSPIRSPSVSRLTATRPSS ITKARALSPMAAPALRSTVTTP PRITVEKPLLMEKIPRVPKSRAI SAL
21766	52134	A	21894	231	704	QSQKPDTRGRLFVAKAPPCVQR HKVRWLRLVMITSAHYLPLRR* *PAHPASGGCCPNRAKYTQRPA E*ISYRPD*EAVR*SRAPAKVTQ SNPASRVALRRPAPRAVHQATII PVDESTLLPAPLAVSARQKVRQ AIPLRDSPVRRPTLDVRHRATG L
21767	52135	A	21895	1291	1925	RQLLRWSNR*IAR*SLTQPARRF PAYHYAHPAAAAAPGDPLGAD LQLCARHYHRQRHCVPRHAGY PRSDGLHPQPRGRWRIRCSDCL RVPF
21768	52136	A	21896	1	445	MFISGLDDFFIDVVYWVRRIKR KLSVYRRYPRMSYRELYKPDE KPL/DDYGSGVE*NGRHRQYGR AGGDHARLRKLSYLCWHLPQR PRYSA*C*RSVRSLPECA*GSLR ASWP/HPAKPTV*TTCWTPSPN LSVAPISLLLVLFCMTPKM
21769	52137	A	21897	79	377	SRKSGISIGAVKRPTH*GS*KAR SIC*NAAYVSKKAESLSSFPEKS ESTQRVKAVLSS**ASQGCGDT AQYVLLSFKGSQQA*QVCGR* KAY**DLSRE
21770	52138	A	21898	1282	1535	GSTYEIASATPSPSAKPSNRSPSP MSRPQSNPKPNSLHSC*P*GNL RSTPESGK*ATPPPPPAYTLVLF KLANPQLPEESPWAF
21771	52139	A	21899	3775	4031	CRRTAASRTPRKRTQTAPTHAT NKPQKPQTSTDRGNRREPEKTE PS*HLRPNPQEPGRRGQTQQ\EP APRHQPPKPQGEPTTPQKQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21772	52140	A	21900	1	2595	MESHTVTDYNFGRLLNESFAN CETDRNYLGIFKCGFWLSGTRK SAFLTKSQVTLTRPVDHTLRNE VLGSTKYQVPGYRRKTNTNLE ESNVLIGYDVAPGGGKQIDGKK AEGRELMVPVAGRPLCRSSSM ELLLLLPLHIPREQMLLADAYW NLHQSCQSKTSPDTAKCPLDRC PRVFKSQSYKASTFDGLSMDTE VIKSNGKQGWRQRRLANMKDI DKQTQAATFVLSQGMQRSGND RIILVTGASDGIGREAAMTYAR YGATVILLGRNEEKLRQVASHI NEETGRQPQWFILDLLTCTSEN CQQLAQRIAVNYPRLDGVLHN AGLLGDVCPMSEQNPQVWQD VMQLFRAGIINADPGAFFVTGF RRYCCFTLCCRSFRFGFYRRRF RHRSCRQRAMRHSGTGQGQGN EQCFNSVFHTVFSLFVNSGITLT AVKTVNKWQCSEMEKAAKAT FSCYSCNAFFCEAASGLLLFQRI ANFDFRLFTQVTHQSFKDDLGI KMETTKPSFQDVLEFVRLFRRK NKLQREIQDVEKKIRDNQKRVL LLDNLSDYIKPGMSVEAIQGIIA SMKGDYEDRVDDYIIKNAELSK ERRDISKKLKAMGEMKNGEAN RKERSSMFRDRPLKRMKSKRD DDSYDEDVEDDEGVGEVRVHR VNHAPANAQEHEAARPSPQHQ YQPPYASAQPRQPVQQPPEAQV
21773	52141	A	21901	1	96	
21774	52142	A	21902	105	430	ASIFVMLVRGAEPMEKRQQRG LFTVPGLLLAFCSHVLSCVNPLI PVDNPYYPPLSELIPAPPQPNDR AQRVSERGSGRAPNTQTASPRA LADSLMQLAR\QVSRLESGQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21775	52143	A	21903	843	2055	HHRMAQNLSRYGNDKRPEESQ FRVVNVKPVTLYDVAEYAGVS YQTVSRVVNQASHVS\AKTREK \VEAAMAELNYIPNRVAQQLAG KQSLLIGVATSSLALH\APSQIV AAIKSRADQLGASVVVSMVF\R SGLVACHTAPHNLL/ARKRGPA GLIINYPLDD\QDAIAVEA\ACT NVPALFLDVSDQTPI\NSIIFSHE DGTRLGVEHL\VALGH\QQI\AL LAGPLSSVS\ARLRLAG\WHNFL TGN\QIQPIA\ER\EGDWSAMSGF QQT\LQMLNEGIVPHWRLLVAQ RSRMALG\AMRRHYPESGLRV GA\DILRVGGNTTIPED\SSCYIP AL*PPIKQDFRLLGA/QTSVDR\L LQLSQGQAVKGN\QLLPVSL\V KRKTTL\APNTQTA\SPRALPRF H*MQLA\RQVSRLESGQ
21776	52144	A	21904	1	1201	
21777	52145	A	21905	1	492	
21778	52146	A	21906	646	934	
21779	52147	A	21907	1	1713	MLCTKWDKLGLEKNAGKNKN AYKWYGWPANAPDEPHIEQLV GECRVMRQLKRLISRIAPSPSSV MVVGESGTAIPVVSHAEFKGGF ADIGVHYLDWTSRTTEKSSTKS HKDDFGYLEFEGGANFSWGEM YGFFDWENFYNGRHNKPGSEQ RYTFKNTKPYLSWVDTGFSLYL HAYGTYGSANRVNFLDDM\FL AGFGFQF*PAGGW/WGSNPFFA K\RYTRSKPYYT\GDNGYV\AG WVAGYNFMLGSEKFTLTNWN EYEFDRDATYAADFLPLYDVD CQDNGNLEYDTYSQPEWKHNL FDHYLAVLYRFKDESGKEQFSG AVVKTREATPGKEIEAITRRML DFSPRLKKLADCPSRPVFEALC ICSMLDALLLLCPLDYHASCDN YSYALLDPQGFPLPHRRLWGPY IDVDVPMLHLIQHAWAQDALL SCLYSDLLYMSSFPYPAGTLTR LMGVTSYNHKNTLLTYCITLMS TIRFAYDGDEEIAMKYTDFLKG ELSMNIRPLHDRVIVKRKEVET KSAGGIVLTGSASAKSTRGEVL AVGNGRILENGEVKPLDVKIGD IVFFNDGYRGEI
21780	52148	A	21908	2060	2404	
21781	52149	B	21909	1	1377	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21782	52150	A	21910	52	1719	IGQVVDVDTCFTRIHLVFVNFD NDTGSIHVLNDTTTFSYRSYTG VNGNSTFHTSTNQRLISAQSRN GLTLHVRTHQCTVGVIVFQERD QGRTDGYHLLGGYVHVVNLV AAEQAGFAFATASYQVFYEVA FFIQVGVRLGDNVVAFFDSRQV VNFVSYNTVGHFTIRSLKEAVF VSLCVHGQRVDQTDVRTFRGF DWTDATVVSRVYVSNFEACTF TGQTAWAECGDTTFVRNLRQR VVLVHKLRQLAGTEELFHCCG SQDPQQPWGWNLRVNPLAQTT GHAHEAQRKQWHKGNEEADD PEPERAFTPGFVQFETERFRPPV GHPCEAAEDHAADDHVMEVR NQEQAVMQNEVRARYGQQHA SHPAHREGDDKTDGPQHRRME HDAALIHGEQPVEDLHPGRDG DNHCGDTKEGVYVRARTHRKE VVQPNDERQHGDTDGCPYQRG ITKQTFTREGCRNFGEHTENRQ DQDVNFRVAPGPNQVDVHHH VATHIVGKEMGAQIAIQGQHAT YRQNGKDL*SNRGVASGNPQC RHRAHRRATDCQTVIKQPVFFG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21783	52151	A	21911	608	2508	YITATSCSGWMIRWCAKAAKC CA/CSRGPGGKLRRHKGAEETL CGNTRVLIAPQLPAVIIATLSGS RSQTGRREGPTPTTVMIQDHTG SSTDDECSANVQRIFNRIMLCSI VSRPRTIPFHDLAQSFRQFRNVK CLWCAFEGAQLMRIQPAIVMV KTIHRERLNSGQFRCHQEARNI PPHRQSRFLASRGLLAELMFML YGIGELPEIVTLPKEIRGNVDNS RHAVFLANSGMPELRFIRTHGS RFTSQDCTLFNWLARIITPVLQS WLNDEEQQVALRLLEKDRDHH RVLVDITNAVLSHLDLDDLIAD VAREIHHFFGLASVSMVLGDHR KNEKFSLWCSDLSASHCACLPR CMPGESVLLTQTLQTRQPTLTH RADDLFLWQRDPLLLLLASNG CESALLIPLTFGNHTPGALLLAH TSSTLFSEENCQLLQHIADRIAI AVGNADAWRSMTDLQESLQQ ENHQLSEQLLSNLGIGDIIYQSQ AMEDLLQQVDIVAKSDSTVLIC GETGTGKEVIARAIHQLSPRRD KPLVKINCAAIPASLLESELFGH DKGAFTGAINTHRGRFEIADGG TLFLDEIGDLPLELQPKLLRVLQ EREIERLGGSRTIPVNVRVIAAT NRDLWQMVEDRGVI
21784	52152	A	21912	147	2699	MTIRAICSCCPLPDA*NVLM*IY MSTFQASGNGQQLQIARIVIQNI TG
21785	52153	A	21913	432	1016	FCPSSCLAATAPAA*AGWSFLP SPAEQNRWRFPLSRFCQIPAPL/ LGTLIISLSVFCSILAASAAEIPG SVDGIYNKSPSLI\WVKIPRQLY *AAREPSAPKAPPPAAWFSASA VLSATA\MINTNQKAIERVTAFR RNFATDPVAHQDRDHYDRQQR RTRHRIRFGERQRAKQTPFLPFQ GEDRDKRQRDNQQTDK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21786	52154	A	21914	1	1146	MTTSMLNAKLLPSAPSAAVVV VRVVVVVGNAPTSRKVGPEEK DWSMASSGTTSTRKRFTGAEFI VHFLEQ/PGH*DCDRHSG/S/CSI LPVYDALSQSTQIRHILARHEQ GAGFIAQGMARTDGKPAVCMA CSGPGATNLVTAIADARLDSIPL ICITGQVPASMIGTDAFQEVDT YGISIPITKHNYLVRHIEELPQV MSDAFRIAQSGRPGPVWIDIPK DEQTAVFEIETQPAMAEKAAAP AFSEESIRDAAAMINAAKRPVL YLGGGVINANARVRELAEKAQ LPTTMTLMALGMLPKAHPLSL GMLGMHGVRSTNYILQEADLLI VLELAGVQTVDTDVNASKPAS ATRHIAFQTVTIGCDRNLADSV VFPHSVDDIGKVAA
21787	52155	A	21915	1001	1037	MVGMASSCMPAFTRLELYSVIS QSTQIRH/ILARHEQGAGFIAQG MA/RTDGKPAVCMACSGPG/AT NLVTAIADARLDSIP/LICITGQV PASMIGTDA/FQEVDTYGI/STM TLMALGMLPKAH/ALSLGMLG MHGVRSTNYFCQEADLSIVLG ALFDAGQIGKTSSFCPNAKI/IH VDIDRAE/REFPCPIPKACDLLS H/YGLINAVAACVDDNAIITTD VGQHQMWTAQAYPLNRPRQW LTSGGLGTMGFGLPAAIGAALA NPDRKVLCFSGDGSLMMNIQ* MIIAIPTGVKIFNWCSPCIRPHR VPFCDAVAIGFIVTFSDVIQIASI YEIPCRDPTGVASTEYSSSSCRR RRNTTLCDPGSPAQRQSPQAGQ NPSCPAHRRSATGVGD
21788	52156	A	21916	135	449	
21789	52157	A	21917	5	214	
21790	52158	A	21918	2	337	IGIAKHAQQLLLNVMQTRAVG AEVQTVSATGSAVRQALANNL QPFAIFFQINA/W**RAGRYPDD HGISPETALYGWHTSATGTAG MR*SVRPWLQSGQGCSGWRRQ QPRWSP
21791	52159	A	21919	1	774	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21792	52160	A	21920	2	914	RHIRTPAHLERFIVDIALNVADG HRAKLIVQSAGTFAQTVLRADS SANFRQGVGLVRQFRRFKNTPL VGELQPVRDVVVYRAFPLAVW VAARQAAVSLRFGLAFGKRLV NFNKLNFADLQRFLWRINAAQ LSCATTT/ADPAVLLHHWTSV* PAQI*WR\S*PVRQNLFTALRAG MLHMLGDKTTQMLFMDRQSV NA*DLDQFRVNAFAEIAAFIEN VSETAGHARTEVNAGFTQNAD DTTRHIFTTVVANAFYHGDSTG VTHAETFTRAACGIQTTTGRAI QAGVADNACFMAAEGGTNRR TNGD
21793	52161	A	21921	204	371	PGPAGAQSAALYRWSPGQAVS RADWFRFADC*IYPENRRNAGS AYRPRLSPAYCG
21794	52162	A	21922	2664	2970	TPDTAPAGCRSRAPDGPSLPRQ MPRRRG*FHTARYCRTPRAITA *R*TE*STCPARTGEWYAHARY APGTSRQTATMPPTMPRRRASS YSSTQPDGRRQNC
21795	52163	A	21923	318	459	
21796	52164	A	21924	577	888	TNSSNQQLAEGNRERLIGRNTA GPERITAGRR*LFSCQNRPCGW RFNKCHIGMPVVVIWRIIVMGI QHDDLVNPFGMRVNRVNMQF AKTLGQRALLLRRNSLIA
21797	52165	A	2192⁵	3	711	AGAHSGPSHPALATTAARQSV AGNRSGISGFSGHSRNPTRMSA RCL*SS\ALERLMRRLNGGEIQI SDVTTTTPS\LSPQVYCSAMSRN LCTRATPRWQSAGHPYCRWTA SYCAIYSDRSIRGNYSTRQSFAS GRRV\PTGSWQKTESEKDCSTC CANWANDRTPLPTSTSSANCST NVQTSVVPVLRRWIWLTSLRV VLTVSLKSVCARGTSPQASCWF VKRAASSATSPVVITTC
21798	52166	A	21926	244	535	TRYPDDHGISPETALYGWHTSA TGTAGMR*SVRPWLQSGQGCS GWRRQQPRWSP**RSC**CSVY PATL*FCRLYNQTSGPGHSDLP AFPDSDRRKI

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21799	52167	A	21927	869	2923	PKKDLKIATSAMMEAAYSV*SR TLFW/SPVRDSQVTDTQWQGL MSQLRLQGFDTLVLQWTRYGD AFTQPEQRTLLFKRAAAAQQA GLKLIVGLNADPEFFMHQKQSS AALESYLNRLLAADLQQARLW SAAPGITPDGWYISAEIDDLNW RSEAARQPLLTWLNNAQRLISD VSAKPVYISSFFAGNMSPDGYR QLLEHVKATGVNVWVQDGSG VDKLTAEQRERYLQASADCHD GAAPHGK\VFKLIIA*RARR
21800	52168	B	21928	72	690	
21801	52169	A	21929	1	2241	
21802	52170	A	21930	1607	1893	NKRIFPSDVKVAEPDHSCV*SFR IGSLASNLSLSLKTRPAFFQLLIK HVD/SMCHQRLSGSRKSKHNVI AVVFSYCSVSVFSASCPTHQVL LQTQYF
21803	52171	A	21931	1	3960	
21804	52172	A	21932	1	1281	
21805	52173	A	21933	1	1491	
21806	52174	A	21934	1	1254	
21807	52175	A	21935	1	723	
21808	52176	A	21936	740	880	NKRIFPSDVKVAEPDHSCV*SFR IGSLASNLSLSLKTRPGFFPTVN
21809	52177	A	21937	1	1191	
21810	52178	A	21938	1033	1248	
21811	52179	A	21939	1	1425	
21812	52180	A	21940	1	2784	
21813	52181	A	21941	676	1467	
21814	52182	B	21942	1	3288	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21815	52183	A	21943	145	1929	VSGVIEIADGSRRRKAAALTES DYRVLVGELDDEQMAALSRLG NDYRPTSAYERGQRYASRLQN EFAGNISALADAECDNLKTCHT SHGSVMAETAVINHKKRKNSP RIVQSNDLTEAAYSLSRDQKRM LYLFVDQIRKSDGTLQEHDGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPEEDAG DEKGYESFPWFIK/RPSRGLYSV HINPYLIPFFIG\LQNRFTQFRLS ETKEITNPYAMRLYESLCQYRK PDGSGIVSLKIDWIIERYQLPQS YQRMPDFRRRFLQGFCRFRNH HQTGFSPAGANQRGPLAATLSG PGGEGQSAVARLTGEKKNHPG AQYANRLSPRVGRFINAAGTTG FPTWKAGSERNAINDDVTYAIK PTCWPGLDIIPSCLALHRIETEL MGKFDEGKLPTDPHLMLRLAIE TVAHDYDVIVIDSAPNLGIGTIN VVCAADVLIVPTPAELFDYTSA LQFFDMLRDLLKNVDLKGNSN GSQSPWMEEQIRDAWGSMVLK NVVRETDEVGKGQIRMRTVFE QAIDQRSSTGAWRNALSIWEPE CNEISIGVSLDQDGGSNSVLRK
21816	52184	A	21944	1790	2947	TDFSVRCKGCRTGPFLRLIFQDR IVGVELIAVF*NTGPRFSSCRLS WRRPFDKTCRMRWHQRLSGFP QEQNDGKQQPILC
21817	52185	A	21945	1	888	
21818	52186	A	21946	252	1863	RKNPFILH*LFR*TLRQTKPDDS AGKGVKI**HTQNQRSGRSQND F*RRLW
21819	52187	B	21947	1	1794	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21820	52188	A	21948	138	341	PNPRGLLNTITPEHFKSKLHIPT TYRQSNGITASHYSYARN*RVG VMARGNAITLPVCGRDVKFTL EVLRGDSVEKTSRVWSGLLELL KAAASLVFLEQHKPYEEIGTSF GSVLVSVVGEGPFVEEDLRKSF PGRWDKKHKMFDAIEEPKKDS DKFDANDPILKDQTQEWSGSA TFTSDGKIRLFYTDYSGKHYGK QSLTTAQVNVSKSDDTLKINGV EDHKTIFDGDGKTYQNVQQFID EGNYTSGDNHTLRDPHYVEDK GHKYLVFEANTGTENGYQGEE SLFNKAYYGGGTNFFRKESQKL QQSAKKRDAELANGALGIIELK YDYTLKKVMKAADHFQTPVTD EIERANVFKMNG
21821	52189	A	21949	761	916	NKRIFPSHVKVAEPDHSCV*SFR IGSLASNLSLSLKTRPAFFQLSIE LSPT
21822	52190	A	21950	1	1437	
21823	52191	B	21951	50	1690	
21824	52192	B	21952	1	1032	
21825	52193	B	21953	1	1974	
21826	52194	A	21954	878	1202	SVYNKRIFPSDVKVAEPDHSCV *SFRIGSLASNLSLSLKTRPAFFQ LSIE\FRRPFDKTCRLMCHQRLS GFPHEQTQRDSTCIQLLFRQRF AAASCPTHQVLLQTQYF
21827	52195	B	21955	7	1702	
21828	52196	A	21956	527	665	NKRIFPSDVKVAEPDHSCV*SFR IGSLAFNLSLALKTPARVFSTVD
21829	52197	A	21957	469	687	
21830	52198	A	21958	2	1018	EGSDSRAFAKENNQKAYKETY GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDNSIDSWKNAGRVFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTDYSGKHYGKQS LTTAQVNVSKSDDTLKINGVED HKTIFDGDRKTYQNGQQFIDEG NIPPATPYAERPYYFEDKGLKY LGKPTVEPSVCGGRLESPWQTA GVSPTVQKLKSLKFDVRGQEES VWEKDEAALANWTVPNHTCD NLKTCHTLHGSVMAETAVFNP KKLKNSPR\IVQSNHLI
21831	52199	B	21959	7	1113	
21832	52200	B	21960	1	1188	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21833	52201	B	21961	1	1414	
21834	52202	B	21962	1	1515	
21835	52203	A	21963	1652	1916	RKNPFILH*LFR*TLRQTKPDNS AGKCVKI**HTQNQRSGRSQND F*RR
21836	52204	A	21964	1	1353	
21837	52205	A	21965	1	1507	MAAQDAMVTRTSSQTDCKEPG LKWAGVVLMLLLCWLMFQVL WEACQQKTGEHKTMLQMILCN KSYQQLRLVITPMYLMLGDWL SKNCGQNSTPSLGDNPPERQTQ EWSGSATFTSDGKIRLFYTDYS GKHYGKQSLTTAQVNVSKSDD TLKINGVEDHKTIFDGDGKTYQ NVQQFIDEGNYTSGDNHTLRDP HYVEDKGHKYLVFEANTGTEN GYQGEESLFNKAYYGGGTNFF RKESQKLQQSAKKRDAELANG ALGIIELNNDYTLKKVMKPLITS NTVTDEIERANVFKMNGKWYL FTDSRGSKMTIDDLHIHAEDTL LPFYLGEKDDVTYAIKPTCWPG LDIIPSCLALHRIETELMGKFDE GKLPTDPHLMLRLAIETVAH*P AEK*HQNHSSPF*PRFFAVSLRT GSSYHCILSSH
21838	52206	A	21966	729	843	NKRIFPSDVKVAEPDHSCV*SFR IGSLASNLSLLINM
21839	52207	B	21967	1	1416	
21840	52208	A	21968	1	1794	
21841	52209	B	21969	1	1171	
21842	52210	A	21970	1108	1250	NKRIFPSDVKVAEPDHSCV*SFR IGSLASNLSLSLKTRPGGASRVP K
21843	52211	A	21971	1	2535	
21844	52212	A	21972	743	898	NKRIFPSDVKVAEPDHSCV*SFR IGSLASNLSLSLKTRPAFFQLSIE LSAT
21845	52213	B	21973	1	1605	
21846	52214	B	21974	1	1873	
21847	52215	B	21975	1	2946	
21848	52216	A	21976	1419	1498	
21849	52217	A	21977	1	2314	
21850	52218	A	21978	1	1215	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21851	52219	A	21979	1	1851	PWISAPVPVDVVEGAMDSVTV LSFGGLMLYFCAGWPPARRWC FPESISCGSMERDQWWGLQVA KRAGLAGGQSGRTVLRERVRIE IASTHIALAARHSDWRCCRNGR YPARGPAALQNFQRYTGIQHV HRIGMAERMWCDRNRERHTVS SSGGNRLPNPGPDRSCDNLKTC HTSHGSVMAETAVINHKKRKN SPRIVQSNDLTEAAYSLSRDQK RMLYLFVDQIRKSDGTLQEHD GICEIHVA\KYVEIF\GLPFAEAS KDIRQALKSFAGKEVVFYRPEE DAGDEKGYESFPWFIKRAPSPS KGLYSVHINPYLIPFFIGLQN\RL TQFRLSETKEIPNPYAM/RLYTN TLCQYRKPDGSGIVSLKIDWIIE RYQLPQSYQRVWTPGINCPEPC PGVWTPGINCPGAWGIHGPHGS AENTGPLHPGQTSAQLETSLLP SLRSARELELAQLSPRRKQNRS LQNIGVTPSLRVPWPKASNVQQ FIDEGNYTSGDNHTLRDPHYVE DKGHKYLVFEANTGTENGYQG EESLFNKAYYGGGTNFFRKESQ KLQQSAKKRDAELANGALGIIE LNNDYTLKKVMKPLITSNTVTD EIERANVFKMNGKWYLFTDSR
21852	52220	A	21980	3197	5376	
21853	52221	A	21981	543	5690	RKNPFILH*LFR*TLRQTKPDNS AGKCVKI**HTQNQRSGRSQND F*RRWSRSY
21854	52222	A	21982	2241	2614	ETLTTLKTKAINTLYSKPTREQ KTDTKAKNLYLTKRTTAAART SSVKKAISFNRALKNAMLS*RT APSVS*IRHRV*NLTMRSSSSSA PSPWML*A*AWLCRYCRASCGI SSIPTASPVTMACC
21855	52223	A	21983	31	892	
21856	52224	A	21984	548	855	
21857	52225	B	21985	1	1825	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21858	52226	A	21986	1	3146	MEWGKFKRLVLPSQGKSKPEQ RCQYRHTVGDQATLPLRSRVE KRNGEAEGRIYRKLWDVALLC CVQEVINGERKPLRALTEVKSG FRLREDSDKFDANDPILKDQTQ EWSGSATFTSDGKIRLFYTDYS GKHYGKQSLTTAQNVQQFIDE GNYTSGDNHTLRDPHYVEDKG HKYLVFEANTGTENGYQGEES LFNKAYYGGGTNFFRKESQKL QQSAKKRDAELANGALGIIELN NDYTLKKVMKPLITSNTCDN
21859	52227	A	21987	1	3107	MNEMKREEKFREKRRERNEQI LQEIRDYVKRSNLHLIGVSKSD GENGTELENTLQDIIQENFPNLA RQANIQIQEIQRMLQRYSSRRTT PRHIIVRFTKVEMKEKMLRAAR EKGRVTHKGKPIRLTADLSAET LQATKEWRPIFNILKEKNFQPRI SYPAKLSFISEGETKYFTDKQM LRDFVTTRPALKELLKEALNME RNNRLVKSLAWASQNGFRSPA LLPLSLMLCAPLQEADGTNLG WLAHCGLLCTGDH
21860	52228	B	21988	239	2825	
21861	52229	A	21989	7533	11119	
21862	52230	A	21990	1	3718	MEVIPEGYRLSELKKCSKWIVV MVARLYEYTKNQQIIHLKWVN HMLGCLLDRNDPLRDVDEAAV PVLCICSADDPVCGPPDHTLTTE LFHSNPYFFLLLSRHGGHCGFL RQEPLPAWSHEVILESFRALTEF FRTEERIKGLSRHRASFLGGRRR GGALQRREVSSSSNLEEIFNWK RSYTRLMAAAAGAAAAPGSRE PQDRPECGAGHPGPRYYRHPER WLLRPEAFLGPLRTRAPSAEDS QRERPAARSGPEM
21863	52231	A	21991	1	697	
21864	52232	A	21992	1	978	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21865	52233	A	21993	145	1929	VSGVIEIADGSRRRKAAALTES DYRVLVGELDDEQMAALSRLG NDYRPTSAYERGQRYASRLQN EFAGNISALADAECDNLKTCHT SHGSVMAETAVINHKKRKNSP RIVQSNDLTEAAYSLSRDQKRM LYLFVDQIRKSDGTLQEHDGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPEEDAG DEKGYESFPWFIK/RPSRGLYSV HINPYLIPFFIG\LQNRFTQFRLS ETKEITNPYAMRLYESLCQYRK PDGSGIVSLKIDWIIERYQLPQS YQRMPDFRRRFLQGFCRFRNII HQTGFSPAGANQRGPLAATLSG PGGEGQSAVARLTGEKKNHPG AQYANRLSPRVGRFINAAGTTG FPTWKAGSERNAINDDVTYAIK PTCWPGLDIIPSCLALHRIETEL MGKFDEGKLPTDPHLMLRLAIE TVAHDYDVIVIDSAPNLGIGTIN VVCAADVLIVPTPAELFDYTSA LQFFDMLRDLLKNVDLKGNSN GSQSPWMEEQIRDAWGSMVLK NVVRETDEVGKGQIRMRTVFE QAIDQRSSTGAWRNALSIWEPE CNEISIGVSLDQDGGSNSVLRK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21866	52234	A	21994	1184	2229	RSSVATVALLHAVINHK/KRKN SPRIVQSNDLTEAAYSLSRDQK RMLYLFVDQIRKSDGTLQEHD GICEIHVAKYAEIFGLTSAEASK DIRQALKSFAGKEVVFYRPEED AGDEKGYESFPWFIKRAHSPSR GLYSVHINPYLIPFFIGLQNRFT QFRLSETKEITNPYAMRLYESL CQYRKPDGSGIVSLKIDWIIERY QLPQSYQRMPDFRRRFLQVCV NEINSRTPMRLSYIEKKKGRQT THIFFDMLRDLLKNVDLKGFEP DVRILLTKYSNSNGSQSPWMEE QIRDAWGSMVLKNVVRETDEV GKDTSLSTPAAPMVDSLIARVG VMARGNAITLPVCGRDVKFTL EVLRGDSVEKTSRVWSGAVSQ GGESFIYMPLTGAAAFLSEMPC PERRNLKKQCGYSGFAACGYQ SQERKNSPRIVQSNDLTEAAYS LSRDQKRMLYLFVDQIRKSDGT LQEHDGICEIHVAKYAEIFGLTS AEASKDIRQALKSFAGKEVVFY RPEEDAGDEKGYESFPWFIKRA HSPSRGLYSVHINPYLIPFFIGLQ NRFTQFRLSETKEITNPYAMRL YESLCQYRKPDGSGIVSLKIDWI IERYQLPQSYQRMPDFRRRFLQ DHNSSPEREQNWMENEFDELT EVGFRRWVITNSSELKEHVLTQ CKEAKNLDKRLQELLTRISNLE NIDDLMELKNTAQELHETYTSI
21867	52235	A	21995	82	325	
21868	52236	B	21996	220	1173	
21869	52237	A	21997	1	1599	
21870	52238	A	21998	188	421	
21871	52239	A	21999	1	596	MGMTDMGKSKKKSQGPPSFPP GGAPPPAIGAPAGRERPPGTGD PFNQRPCDNLKTCHTSHGSVM AETAVINHKKRKNSPRIVQSND LTEAAYSLSRDQKRMLYLFVD QIRKSDGTLQEHDGICEIHVAK YAEIFGLTSAEASKDIRQALKSF AGKEVVFYRPGEDAGHEKGYE SFPW/FIKRSPE*RRGKFPFTQM GQD
21872	52240	A	22000	1	1527	
21873	52241	A	22001	2	870	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21874	52242	A	22002	1	4304	MAETAVINHKKRKNSPRIVQSN DLTEAAYSLSRDQKRMLYLFV DQIRKSDGTLQEHDGICEIHVA KYAEIFGLTSAEASKDIRQALKS FAGKEVVFYRPEEDAGDEKGY ESFPWFIKRAHSPSRGLYSNRFT QFRLSETKEITNPYAMRLYESL CQYRKPDGSGIVSLKIDWIIERY QLPQSYQRMPDFRRRFLQCINA GHEMTKAIAIAQFNDDSPEARK ITRRWRIGEAADLVGVSSQAIR DAEKAGRLPHPD
21875	52243	A	22003	740	1159	SLPNLDNSAICSSSSSPTRTR*SL SVSAAALRRRLPSAISMTPDTL RPNAGVC*PVSRKEGMRSSSAS SVSSSWSRSLPDHTREVFSTLSP RSTSRVNFTSRPHTGKVMALPR AITPTRAINESTIETAGEDNEVSS TG
21876	52244	A	22004	664	1844	SGNLKACHPSGSVMAETA\VI NHKKRKNSPR\IEQ*KDGYQQA YSLSRDQKRMLYLFVDQIRKSD GTLQEHD\GI\CQIHGAQYR*QIS D*PFAEASKDIRQALKSFAGKE VVFYRPEEDAGDEKGYESFPW FIKRAHSPSRGLFSGHIPP\YLIPF FIGVKNRLTQI\RLFETKEIPHPS AL\RYYESLGQDRK\PDGSSIGS LK\IDWIIERYQLPQSYQRMPDF RRRFLQHFLAHAGCPKGTQNFT FRMKFIIFSIKKVLPPVDTILAHD PVIHTCHLRESFGSVSPSSPKSN RLPCPEVILFHYGESWNLLRAD QRLIFAKSWPRASRYQQGHQD LFILRSDLPSQVFIRDKLMERRN RRTGRTEKARIWGSDGQNGQE PGYVEAGCPPLLLTV
21877	52245	A	22005	3	272	
21878	52246	A	22006	1	528	
21879	52247	A	22007	461	831	LLNLATWRYLGTLTRGTAS\VA VAGILAALRITNNKLSNHVFVF QGAGEAAMGIAHLLVMALRRK K\GTERTTATRKIWMVDSK\GLI CQGEGSHLN/HHEKEMFAQDH PEVNSLEEVVRLVKPTAM

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21880	52248	A	22008	3	1894	EGEDRGLPRTMGAALGTGTRL APWPGRACGALPRWTPTAPAQ GCHSKPGPARPVPLKKRGYDV TRNPHLNKGMAFTLEERLQLGI HGLIPPCFLSQDVQLLRIMRYY ERQQSDLDKYIILMTLQDRNEK LFYRVLTSDVEKFMPIVYTPTV GLACQHYGLTFRRPRGLFITIHD KGHLATMLNSWPEDNIKAVVV TDGERILGLGDLGCYGMGIPVG KLALYTACGGVNPQQCLPVLL DVGTNNEELLRDPL\YIGLKHQ RVHGKAYDDLLDEFMQAVTD KFGINC\LI\QFEDFANANAFRLL NKYRNKYCMFNDDIQGTASVA VAGILAALRITNNKLSNHVFVF QGAGEAAMG\IAHLLVMALE\K EGVPKA\EATRKIW\MVDF\KGL IVKGRSHLNHEKEMFAQD\HPE SNSLDEVVRLVKPTAIIGVAAIA EA\FTEQILRNMASF\RRAPIIFA LSNPPRKAECTA\EKCYRVTEG PRGFFASGKSFLRSVDL/ESMGK TFIPGGRGNNA*RVPRGWQLG VHSPGGDPGHIP\DEIFLPDSRA KLPQEVSEQHL\SQGRLYP\PLS T\IRDVSLRIAIKVLDYAYKHNL V\SYYPEPKDKEAFCKIPGSYTP DYDSFYT/VDSYIWAQGKAMN
21881	52249	A	22009	322	567	
21882	52250	C	22010	338	603	
21883	52251	A	22011	127	417	
21884	52252	A	22012	253	424	
21885	52253	A	22013	124	1235	YLCLLPKGQGDRALSRTSQWP QMSQSQACGGSEQIPGIDIQLN RKYHTTRKLSTTKRFPTACWR KKVGAFTKIIEAMGFTGPLKYS KWEDLRLRALRIVY*LCGRKLD FEGFFSK\CS\MPDTFNSWFLINP YFHVWMCLVRMKQEGRSGKY MCRIIVHFMWEDVQQRGRVM GVNPYILKKNMILMTNHFYA\A ILGYDEGILSDDHGLAAALWK NLL\N\RKCEDPRHLELLVEYVR KQIQYLDS\MNGEDLLLTGEVS WRPLVEKNPQSILKPHSPTYND RGTFDGLGPPHGPPAGFRGTSR EEKCLVGPRTPARKWPELDLLN KHLSKYLAPICVEFPLSVPQESD LLGYRAWENPLALPGCPSSLRG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21886	52254	A	22014	282	435	GGGASPAACSGSPDSS\HSATA GTGCRRPARPPPAPPTPTPWRS RQQGSRAS
21887	52255	A	22015	3	399	IVALPFGHHHSQTSPLPNLLQTA ACLLLHFLLLSGVETGRPGPWQ PRIRARGPPAPPGPARPAKPRRR /GCRGPAREACWYGCRRPARPP PAPPTPTHGAAGSREAERASEL/ C*GARPLRLGSAGTIMVSACVP
21888	52256	A	22016	279	872	KIPIISLSLKLGQASSKIIPTPQNP HLSPGTKRDSSFQPWSLSAFIIT GQCCSYIVRWGLWKPRLILVV KKYAALSAEMLLVKVEEPSPA ACSGSPDSSSFCNCW*PAAAGR L/ASAAQRPPTPNAHKRSRQQG SRASERAS/CKGRGRYGLGALG GRGGRALGGSRWPPPLPGETLF SGCKHRRRRRGSDAAPGEEAG
21889	52257	A	22017	106	398	NAAPFSRHAAFQGFSWAVCIFR LPAERALRLFPASCLVLPGGPS GVAP\HGWPLPTTAPPLLQGVW RVEVGEHEMAEIFSSAKKEAAG ALQRPCIPVW

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21890	52258	A	22018	1	1806	MRGNTAGGPGDEKPDSTHPPW EGTLQEAQEMKKVVRFMWTS GGPDPQHWRGSGLYGQLVAQ MLHIDVAQVYMDSWWPRCST LAWLRFIWTAGGPDAPHWLRS GLGGQLVAWMLHVGVAQVYV DSWWPSCSASMWLSFMEHKQ CLTLGYEVALFLQHFLSRAFVL VWVPRKEKAQVLRQGLSLTFR ENPGVCVMSSYRPWLITAAAD MQPSKPGGTGSYCSYWSPTDN TPRLAAACTWNLGSSHGSAPG VRTFIEAGFSPPFLAPKALALTL SDSDSRWGPNPVYAQPQP/PEP AWGPNPV*GQPQPRNRPG\PEP CVCSTPTAEPPWGPNPVSTPTA EPAWGPNPVYA/PTPTAEPPWG PNPV*GQPQP/REPAWGPNPVY GQPQPRNRPGS\PPQGNLYCSA ALGATDPSQSWHQCSQNLLPA DKGAKREAPW/PRPPSGEVDHQ VWHLHGWPLPTTAPPLLQGVW RVEQTPASHHRQPRPRQSSPST KAPPVITVNQGPASHHRQPRPR QSSPSTKAPPVITVNQGPASHH RQPRPRQSSPST/TGPASHHRQP RPRQSSPSTKAPPVITVNQGPAS HHRQPRPRQSSPSTKAPPVITVN QGPASHHRQPRPRQSSPSTKAP PVITVNQGPASHHRQPRPRQSSP STKAPPVITVNQGPASHHRQPR PRQSSTLTKAPPVITVNQSPASH

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21891	52259	A	22019	27	1367	RILAGPARAEAGSASDRSTGHL FPRGVGMDLCHPQPAELSSGET DELPRI*WHRKQLLEDIQKLKD EIADVFAQIDCFESAGDSRMAH KENELCIGRKKFNMDPRQGRW LWRARATGCGGCMGAPAW\FL SGEGLNKTAIGTYLGER*ERVE P*RGRK*RCAGVYRCVDVQAL R*VVLGQGPGPQGWHSPSGWG CRDPRYCLCNPGVFQSTGARRG VGPRAPGPLQHCQA*ISQTRPPF ERFVSMNRGINNGSDLPEDQLR VREAQPTQPGPGESRRDLSLDG WPFFNPDREGWLLKLGERPTD TRRRTHTHARAGTHRCMHTTV SRVLLGLPLPPPLPAQPTSQ/PPT SRC/LRLQDPE/CWSHWEIS*TE RGESRVVEGKHESYRISATSAE ERDQWIESIR*GVPRSGDGFPSP SRRPCFFWVLRDSWRWHWGL VTLRVPSPAAPGDP
21892	52260	A	22020	140	356	
21893	52261	A	22021	2	1147	APARGPAVASGPSPGPAAEPVQ NTETAAMTTHVTLEDALSNVD LLEELPLPDQQPCIEPPPSSIMYQ ANFDTNFEDRNAFVTGIARYIE QATVHSSMNEMLEEGHEYAV MLYTWRSCSRAIPQVKCNEQP NRVEIYEKTVEVLEPEVTKLMK FMYFQRKAIERFCSEVKRLCHA ERRKDFVSEAYLLTLGKFINMF AVLDELKNMKCSVKNDHSAY KRAAQFLRKMADPQSIQESQNL SMFLANHNRITQCLHQQLEVIP GYEELLADIVNICVDYYENKM YLTPSEKHMLLKVMGFGLYLM DGNVSNIYKLDAKKRINLSKID KFFK/HAAGGAPFRRHADRAGQ IH*DQCSL*REQVQVDVHPEQH QPPVQYLRADGSDPG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21894	52262	A	22022	47	1581	ALVLMYLASSICMSPKRGTTCS CLERGSRCPTSEPPPPPEPPPGRS SRCRPGLGPYGGGGEKMADDP SAADRNVEIWKIKKLIKSLEAA RGNGTSMISLIIPPKDQISRVAK MLADEFGTASNIKSRVNRLSVL GAITSVQQRLKLYNKVPPNGLV VYCGTIVTEEGKEKKVNIDFEP FKPINTSLYLCDNKFHTEALTA LLSDDRQVWDFIVIGG/SVGALF GHTPKGNTRGGPWHKFTVGIFP K\KHG*EGGQ\SALRFARLRME KRHNYVRKVAETAVQLFISGD KVNVAGLVLAGSADFKTELSQ SDMFDQRLQSKVLKLVDISYG GENGFNQAIELSTEVLSNVKFIQ EKKLIGRYFDEISQ/DLTGKYCF GVEDTLKALEMGAVEN\LIVYE NL\DIMRYVLHCQGT\KEEKILY LTPEQEK\DKSPFH\DKETGQE\L ELIESMPLLEWFANNYKKFGA\ TLEMFTDKSQKGSPV**KDLGG IGG\ILRYQSRFPGEWNTKKET MNFLTLMTTR
21895	52263	A	22023	1	296	VEDERVCAGPAWERQAGQERP ARKVQGKAPEAEGKHGCLLDI LVCTYLAEKGLSGSCGLTEALV AFGEGSSLGRKNCRDPWGSLR QEPHWSDP/WSGPPERCKGKPQ RRRGSTDAFWTSWSART*PRRG SLAAVG*QRHWWPLGRAAV*E ERTAETPGAPSGRSLTGQTLGS LHV
21896	52264	A	22024	5	309	LPDADLFCPACGAAAGRARSA GMRPVFAVSVARTPSPR/PPPAE PQFPRLPCGSIGSPFFRDIDTIQK FPDMLSSFFFRDIDTIQKFPDML VFNCCCLLNQSR
21897	52265	A	22025	1	258	RGRSRIARSASGPRPALVRPPAR PPAP*TPRSWSCWSSC*PRSASA TGSPSA*ATDAHADSSKAMLPE PTSSISKFSTLQTVPFRL
21898	52266	A	22026	119	692	PSSHSVRTATYSSLRQSAVSTRT STTTTLAFMARAGGRAGGRAR VGGRTPSGQCGCPACGAAAGR ARSAGMRPVFAVSVARTPSPR/ PPPAEPQFPRRPQR\GAPAPSGG GASLPAPRALASSIPAQLMKPG RAKGSAGNLHPG\EGRPGARRS DPAGAARSLACP*IWPKQTPSP LASSSSFFLSETPECAH

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21899	52267	A	22027	2	246	
21900	52268	A	22028	1	927	
21901	52269	A	22029	251	1077	VTMGKVLAVSSLPAGPPPPPVP ALVGLPPPP*HPGFRLPPLGGG LGARTSVGRGLERTPGAATASA AGGAEDGACRCLPNPCTFEECH RKCKEL*MEGVKFTENKAL/SS KMAIQTQQSKFVKWQVDGEYR GSDFTVDVTLWNPDVLMGSGI LVAHYLKSITPCLALGSELVYH RRPGEEGTVMSVAGKYTLNNW LATVDVEFEASTRMQDTNVSF GYQLDLPKANLLFKGSVDSNW IVGATLEKKLPPLPLTLALGAFL NHRKNKLRSGFGLTIS
21902	52270	A	22030	1	1171	GGGSGFGCAWRTGWERSPGRE QAPPPATMGNVLAASSPPAGPP PPPAPALVGLPPPPPSPPGFTLPP LGGSLGAGTSTSRSSERTPGAA TASASGAAEDGACGCLPNPGTF EECHRKCKELFPIQMEGVKLTV NKGLSNHFQVNHTVALSTIGES NYHFGVTYVGTKQLSPTEAFPV LVGDMDNSGSLNAQVIHQLGP GLRSKMAIQTQQSKFVNWQVD GEYRGSDFTAAVTLGNPDVLV GSGILVAHYLQSITPCLALGGEL VYHRRPGEEGTVMSLAGKYTL NNWLATVTLGQAGMHATYYH KASDQLQVGVEFE\ASTRMQDT SVSFGYQLDLPKANLLFKGSVD SNWIVGATLEKKLPPLPLTLAL GAFLNHRKNKFQCGFGLTIG
21903	52271	A	22031	14	434	CYCQGILSPPPCPPFLLGSAQTS AICSWVRGVPAESSTSSFPKAP* VALESRGEAPTLHLPVTSRFLQ CVSSEQECVPWKP/HSSPRPRFL DISPSPTCVRL*APGPVPFDPHQ KTWRSPLGTRAQGVGPRDRDS CRIVPG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21904	52272	A	22032	989	1859	VYGDSRWSLALSPRLECSGA\IS AH*NLCLPGSSDSPASRITGISG ARHHAQLI/L/YVFLVEMRFHH VGQAGLKLLTSGNP/HHLGLPK CWDYSRKPPPRPPRPII\FSFFFL RWSLALVAQAGMQWDDLSSL QPLPPGFK*FSCLSLLRSWDYG CPPPRLANFVCVCVCVLV/VDG GFTMLARLGLELLTSGDLPPFG LPKCLGFTGMSHCARPIFFF\FE MESCFATQAGVQWCDLSSLQP LPPRFK*FSCLSLLSSWDYRHM PPCLANF/CFGIFSRDRVSSCWP GRSQTPDLK
21905	52273	A	22033	157	376	SHQDFMRTAANLLQTGWCTGS NTGAGARWGLCRASLSRCRCA APSAPCSGSRCS*RSWKGTHPS LPPRCRGRS
21906	52274	A	22034	298	399	
21907	52275	A	22035	1	185	
21908	52276	A	22036	311	516	WKAERRTRHLLQTGWCTGSNT GAGARWGLCRASLSRCRCAAP SAPRSGSRCS*RLWKGTHPSLPP RCR
21909	52277	A	22037	1	1487	MMGHSSAIPLTATPGELKGQSP TKMPDPELGCQGAKSQGCSRN ARHQKARSMPLQDQHLALAIL LELAVQRGTLSQMLSAILLLLQ LWDSRAQETDNERSAQGTSTL LLSLLQTFQSIICSKDTPPSEGN MHLLSGPLSPSESFLRESFFTVQ NCRNNEEVTLICKADLENHNK DGGFWIVIDEKVYDIKDFQTQS LTGNSILAQFAGENPVVALEAA FEFEVTRESMHAFCVGQYLEVR LYALSDAEDGRGHPLMASVIHL LWRLQTSQIHYSYNEEKDEDH CSSQWAHLPANRDCSHRWALG DHSQAFLQAIADNNIQDHNVKT HQEQGRSYKEVCTPVIERLRFL SNELRPAVGNDLSIISEFKLLSSL PRWRRIAQKIIRERRKKRIPKKP ESTADEEKIGNEESDLEEACILP HSPINVDKRPIAIKSPKTITSENP LG/REPGEHPASPLPPDDAQHA HPAAQRKQPRPPAQFRHAGPHS DGTAPDWPQL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21910	52278	A	22038	263	375	AGPRRMRRISAWAVSTPLTDSP SPGHQPA/GEVAGAGSF**HPP/P PCPSRYCPQMTPPPPPPAPPPAL PPPPPPAPASPPLPPAPSPPPHAP PQALPPPPALPPPPPASPPLLPPA LSPPLPAPP/PPSAPPASPPPAPPP PPAPPPSPPPAPPPSAPSSPAPLPP APASPP\SPAPPPPAPPPAPHPPSP PAPPCPPLPRPRGPSVPQEKVHQ V*IPVP\PAGEGGPAPGRIWPQG WRRAGKPPTWEEALAAFPPWT ALPPASAVPAQPPRAH*VAPAL *WALHRRSDSDSDSSNLSPRIPG TGGQRRQPR*DS*APACSEVAG AGSF
21911	52279	A	22039	1	2001	
21912	52280	A	22040	1846	7725	PEPFCHRAAHWSNQYCPFQFQ DTDSPRQTLTVLIKDNGEPSLST TATLTVSVTEDSPEARAEFPSGS APREQKKNLTFYLLLSLILASV GFVVTAFGVIIFKVYKWKQSRD LYRAPVSSLYRTPGPSLHADAV RGGLMSPHLYHQVYLTTDSRR SDPLLKKPGAASPLASRQNTLR SCDPVFYRQVLGAESAPPGQIR YPVPEESQEGTFVGNVAQDFLL DTDSLSARRLQVAGEVNQRHF RVDLDSGALLIKNP
21913	52281	A	22041	108	340	PQPSQVMSFHGDSGSCRRWAT AGT*ATSPPCSSSIFLRRMHSGH WCSCWPVRGTPCRDFTAQMAG PSRGSKTNRSMW
21914	52282	A	22042	275	752	EKTHKTCRCGRGCGKRGTL*H CWWECNLLQPLWKMVW\KWL KELKVELLCDLAVPL/LGINPEE KKSLYEKDTCT/R/LFMAAQLAI AKKWNQPKCPSINKWLQKLW YIYMMEYYSAIKRN\LTAFAAT WMRLETIILSQGDPLESTCSRSQ ANRQEITSVPKA
21915	52283	A	22043	25	202	DAEAWAMELADVGA*ASSQG APQPEEPAASLGVNEKGGAGG RSGRRPLGRDRPRPTRLL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21916	52284	A	22044	1	2290	MEKLGVEPEEEGGGDDEEDAE AWAMELADVGAAASSQGAPQ PEEPAASLGVNEKGVHDQVLPT PNASSRVIVHVDLDCFYAQVE MISNPELKDKPLGVQQKYLVV TCNYEARKLGVKKLMNVRDA KEKCPQLVLVNGEDLTRYREM SYKVTELLEEFSPVVERLGFDE NFVDLTEMVEKRLQQLQSDEL SAVTVSGHVYNNQSINLLDVLH IRLLVGSQIAAEMREAMYNQL GLTGCAGVASNKLLAKLVSGV FKPNQQTVLLPESCQHLIHSLN HIKEIPGIGYKTAKCLEALGINS VRDLQTFSPKILEKELGISVAQR IQKLSFGEDNSPVILSGPPQSFSE EDSFKKCSSEVEAKNKIEELLAS LLNRVCQDGRKPHTVRLIIRRY SSEKHYGRESRQCHIPSHVIQKL GTGNYDVMPPMVDILMKLFRN MVNVKMPFRLTLLSMCFCSLK AVNTATTRLIDYYLMPTISITSR SGKHSFKMKDTHMEDFPKDKE TNRDFLPSGRIESTRTRESPLDT TNFSKEKDINEFPLCSLPEGVDQ EVFKQLPVDIQEEILSGKSREKF QGKGSVSCPLHASRGVLSFFSK KQMQDIPINPRDHLSSSKQVSS VSPCEPGTSGFNSSSSSYMSSQK DYSYYLDNRLKDERISQGPKEP QGFHFT\NSNPA\VSAFHS\FPNL QSEQLFSRNHTTDSHKQTV\AT
21917	52285	A	22045	2	141	
21918	52286	C	22046	278	489	
21919	52287	A	22047	130	426	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21920	52288	A	22048	357	1579	QRRPRPFPSQGISMTECFLPPTSS PSEHRRVEHGSGLTRTPSSEEIS PTKFPGLYRTGEPSPPHDILHEP S*SNGLMDEKDHGKKKGNFKK KEKRTEGYAAFQEDSSGDEAE KLMPRFEEAYGRTTETEKVQEF QRLLKELPEGNYLLISLFVVHM DHVITKELEAKMNIQNIYIVVSP TVQISNLVLYVFFTHVQELFGN VVLKQVTKTRRWSNVATMPTL PETQAGFKEEIRIQELLLNCLHQ DLQGGIKDLSEEERLWEEKEIL TKQEELLGMEQFLRRQIASEKE EIECLRAETAEIQSHQQQGLSET EEYSSESESEDEEELQIILEDLQR QNEELEIKNNHLNQAIHEESEA VIEPRMQPWLLQLQPDRAKQQ AQEDEEPEWRGGAMQTPKNGI
21921	52289	A	22049	182	2212	VTEKTSSLPSQGISMTECFLPPT SSPSEHRR\VEHG/SAGLTPGPPA SEEIQPLPKFPGLY\RTGEPPHPP P*HPSHEPSLM*CPDDEKDHGK KKGKFKKKEKRTEGYAAFQED SSGDEAESPSKMKR\SKGIHVFK KPSFSKK\REKDFKIKEKPKEEK HKEEKHKEEKHKEKKSKDLT\A ADVVKQWKEKKKKKKPIQEPE VPQIDVPNLKPIFGIPLADAVER TMMYDGIRLPAVFRECIDYVEK YGMKCEGIYRVSGIKSKVDELK AAYDREESTNLEDYEPNTVASL LKQYLRDLPENLLTKELMPRFE EACGRTTETEKVQEFQRLLKEL PECNYLLISWLIVHMDHVIAKE LETKMNIQNISIVLSPTVQISNR VLYVFFTHVQELFGNVVLKQV MKPLRWSNMATMPTLPETQAG IKEEIRRQEFLLNCLHRDLQGGI KDLSKEERLWEVQRILTALKRK LREAKRQECETKIAQEIASLSKE DVSKEEMNENEEVINILLAQEN EILTEQEELLAMEQFLRRQIASE KEEIERLRAEIAEIQSRQQHGRS ETEEYSSESESESEDEEELQIILE DLQRQNEELEIKNNHLNQAIHE EREAIIELRVQLRLLQMQRAKA EQQAQEDEEPEWRGGAVQPPR DGVLEPKAAKEQPKAGKEPAK
21922	52290	B	22050	34	322	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21923	52291	A	22051	137	1546	QMLGGRPPPRWLQLAKARALA RRRPPPSLHLTLPTALSLKS/RTP VPKSIPISETPNIPPVSVQPPASIG PPLGVPP/PEPSHGDDQPRPG\PL PIFMEQQIMQQIRPPFIRGPP\PM PPTPTAPCPTPCFPASGPRPVAP ETWAPLPAPCTGPCY\PPHPPPE/ PPPP/SPGNPPGLLPPPPPGAPLPS LPFPPVSMMPNGPMPVPQMMN FGLPSLAPLVPPPTLLVPYPVIV PLPVPIPIPIPIP\PSATPSPPTGSP ATGRTSFRTPLATPRRRAASQA DTPCPPGTPSRARPSPRTRPPAA RARP*AWRPRPPSMAGARWWT *RGAPA\PPGPPGRGRPARLPRR AAGPAGRRHRPDRGPPSPAAQR DPPRAA/PRTSRRSASRAPRSAG PAAAAGTATAARPPPATQARA PRRAPRRPRPATSS*TARAAPPP/ SGAKSAEPPPEQPPPPPPPAPPK KLLSPEEPAVMRARVGQGE
21924	52292	A	22052	762	2049	RSSFSMGADLLACST/SGLGNM PY\DLLRGMEPTLGCSFEDLAL A*PGGITQE\KINEMRVAPEQQ MI\ADIHFMIAAGQDLDWIDAQ GATLLHIAGANGYLRAAELLLD HGVRVDVKDWDGWEPLHAAA FWGQMQMAELLVSHGAN\LNA RTSMDEMPIDLCEEEEFKVLLL ELK\HKHDVIMKSQLRHKSSLS RRTSHRQAS/SVGKVVRRTQPV GTGPNL\YRKEYE/GEEAILWQR SA\AEDQRTSTYNGDIRET\RTD QENKDPNPRLEK\PVLLSEFPTK IPRGELDMPVENGLRAPVSAYQ YALANGDVWK\VHEVPDYSMA YGNPGVADATPPWSSYKEQSP QTLLELKRQRAAAKLLSHPFLS THLGSSMARTGESSSEGKAPLI GGRTSPYSSNGTSVYYTVTSGD PPLLKFKAPIEEMEEKVHGCCRI
21925	52293	A	22053	2	306	SKEAFAIGLGGGSASGKTTVAR MIIEALDVPWVVLLSMDSFYK/ NAFDFDLIISTLKKLKQGKSVK APIYDFTTLSRKMDWKTLYGA NVIIFEGIMAFADKTL
21926	52294	A	22054	2	379	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21927	52295	A	22055	352	1227	GDVSPQLSPRQKSGPLCTSCCA WPVCSPHSDAQPSCGEGGLWE KTPFLSVPHRFVPRAALASAHQ CHPLPRTLSVLKSTPQVRGMHT IIRDKETSRDEFIFYSKRLMRLLI EHALSFLPFQDCVVQTPQGQD\ *RITGVSILRAGETMEPALRAVC KDVRIGTILIQTNQLTGEPELHY LRLPKDISDDHVILMDCTVSTG AAAMMAVRVLLDHDVPEDKIF LL\SLLMAEMGVH\SVAYAFPR VKKSSPRRWDKAGQLTFFRIIP GIGNFGDRYFGTDAVPDGSDEE EVAYTG
21928	52296	A	22056	72	2746	FLVETGLHHVGQAGLKLLTSN DPPASASQSTGITGMSHHAQPR QSSYVPPMSLPASAMPVEGVG GDALWAGHASGYLGGGQLWA TSEYIPLCSSNAESLDRLLPPVG TGRSPRKRTTRQCKSEPPLLRTS KRTIYTAGRPPWYNEHGTQSKE AFAIVPVEQEKEAGQPQAAAA GWAPLGPICAGSLPVPHRGSPL PPAGLGGGSASGKTTVARMIIE ALDVPWGGSSLSMDSFYKVLT EQQQEQAAHNNCNFDHPDAFD FDLIISTLKKLKHGKSVKVPIYD FTTHSRKKDWKTLYGANVIIFE GIMAFADKTLLEGPGPAPCTGP EDSIIRHIAAPSLHKASSRANYC VLSMGTDPKLATSPIPQCVGAS YPKQRCPGEVALARPTDQAAS VQGLVPVSPCPLLASGHSLARC LHQLLDMKIFVDTDSDIRLVRR LRRDISERGRDIEGVIKQYNKFV KPSFDQYIQPTMRLADIVVPRG SGNTVGHRP*LLQHVHSQLEEV SGVPRPHGLAPSPSTHFSAATTP SWPVHLIPLRSLSPASS\SSQPAQ LCQQELGNCSKKLGLGRGRIPL SLPKGRHAGGAALASAHQCHP LPRTLSVLKST\PQVRGMHTIIR DKETSRDEFIFYSKRLMRLLIEH ALSFLPFQDCVVQTPQGQDYA GKCYAGKQITGVSILRAGETME PALRAVCKDVRIGTILIQTNQLT
21929	52297	A	22057	61	341	
21930	52298	A	22058	1	1086	
21931	52299	A	22059	1	498	
21932	52300	A	22060	104	3395	
21933	52301	A	22061	1	1653	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21934	52302	A	22062	1	1717	
21935	52303	A	22063	172	13375	EDLFKCIMAHAASQLKKNRDL EINAEEEPEKKRKHRKRSRDRK KKSDANASYLRAARAGHLEKA LDYIKNGVDINICNQNGLNALH LASKEGHVEVVSELLQREANV DAATKKGNTALHIASLAGQAE VVKVLVTNGANVNAQSQNGFT PLYMAAQENHLEVVKFLLDNG ASQSLATEDGFTPLAVALQQGH DQVVSLLLENDTKGKVRLPAL HIAARKDDTKAAALLLQNDNN ADVESKSGFTPLHIAAHYGNI
21936	52304	A	22064	1	360	
21937	52305	A	22065	1	2577	
21938	52306	B	22066	323	3154	
21939	52307	A	22067	93	791	IRMSYAEKPDEITKDEWMEKL NNLHVQRADMNRLIMNYLVTE GFKEAAEKFRMESGIEPSVDLE TLDERIKIREIDT*KGQIQEAIRL *FNSLHPEL/LWDTNRYLYFHF ASNSILIPS*FRQ\GKTRGRRWG VAQTQLAD\RGEESRECLTEME RTLALLAFDSPEESPFGDLLHT MQRQKVWSEVNQAVLDYENR ESTPKL\AKLLKLLLWAQNELD QKKVKYPKMTDLSKGGD
21940	52308	A	22068	171	426	
21941	52309	A	22069	5	655	LLQPSVQLPNGTANTSLSFAAV SAVSPPPCRTSTATTLPPPMPSF FCVFPSPSMSPSPSEFLSCIASVS RVHSLSSSSSGSSSTASSLNFSAI MGSSSATASWVLSTTSTPPCPS ALPSSPAQES*SLAASSSAWLSE HPSFSSFTLSWASGAFCDEVSLS FSGSKLSFLSSKGDCGIPFI*TSA CPSSLDFSPCFSSSTSKSSSYSEI GKSPQPI

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21942	52310	A	22070	87	1180	NQASLEVLPSPVDSPDSIPSLPP/ SDNPNRNFSAAPVSCLPSPLPVA ASWPSDPSSCSCPSPEVFRSRAP GVPTPASVVYVTVISSAAGTSSP LRANSSTTTFPAAAVFPTNSSC WCQVSSSATSEKEEALFAIVFSS AVSEPANTSLSSAAVSAVSPPPC RTSTATTLPPPMPSFFCVFPSPS MSPSPSEFLSCIASVSRVHSLSSS SSGSSSTASSLNFSAIMGSSSAT ASWVLSTTSTPPCPSALPSSPAQ ES*SLAASSSAWPVAGISPSGAC TFPAGSASGAAKAPSPSWRCPS FRALFSLLDSSSLSLCSVSLASL SLSPPPSFLRAVMFPATFKSRRC FKYGNHCLFSDLLWLEVCAL
21943	52311	A	22071	841	1052	IGEVLLDNVLKSVF*LGSVLPIT SLKLLP/SGSKRDPAKMSHSHP AG*VTTGAFPRCGRWRLQPAA PPPPS
21944	52312	A	22072	817	866	HANPVSPPTSWPKE*SWP*CSG **RTFQSVSFAGGRRRGSWLKP PPATAWKSSSCHLPSGVRMAHF CRIPFGPRGRDFADFGTTIKQDF RLLGQTSVDRLLQLSQGQAVK GNQLLPVSLVKRKTTLAPNTQT ASPRALADSLMQLARQVSRLES GQ
21945	52313	A	22073	2	3238	TTFPAAAVFPTNSSCWCQVSSS ATSEKEEALFAIVFSSAVSEPAN TSLSSAAVSAVSPPPCRTSTATT LPPPMPSFFCVFPSPSMSPSPSEF LSCIASVSRVHSLSSSSSGSSSTA SSLNFSAIMGSSSATASWVLSTT STPPCPSALPSSPAQES*SLAASS SAWPVAGISPSGACTFPAGSAS GAAKAPSPSWRCPSFRALFSLL DSSSLSLCSVSLASLSLSPPPSFL RAVMFSSDFSNPGVASNMGTT VSF
21946	52314	C	22074	88	4374	
21947	52315	A	22075	73	616	VKESLTQKSKRFQNKLINRRG WERPRSGASWTQRRALGGRGC VDRWLGII/WPHRIPGARLRGFP ALNPTPQTAPSPSPDPRPRPP/CP SDPGPRTEAQCSL\PPPP\PSPRH LDPGPEPPTPLTQQGQKGTRAP RPRCPRSQK*ATSGPAVRRREA RGSASLRTRAPSRDSTHAGIQG NVALQP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21948	52316	A	22076	1	421	GTVVMGLPKYFISLSTKFPLSFS LSADELHIASLFLWPRSKPFGVI QRSCASQLNALPEVLKNPGDPD KMLRFAESPRNLPAGVL/GDIW TDGKGSVSLQEQVYHFPLIRPT PGS*ARASFLSCG*EEFRRHGLT FSSTRE
21949	52317	B	22077	211	2041	
21950	52318	A	22078	200	1525	IMASAHLATSAFCTRSSSSGRSG SCKRGSWDSEQALIRAWTTLPS SLHAADGSFAGGRGIPSKRWS WRAGQQSSLCLIMQTSSNCGNS FQLVSEGASWRGLPHCSCAELQ DSLNFSYHPSGLSLSVRPSSPGN SPKEQPFSQVLRPEPPDPEKLPV PPAPPSKRHCRSLSVPVDLSRW QPVWRPAPSKLWTPIKHRGSGG GGGPQVPHQSPPKRVSSLRFLT SSQCLFSMCPSSQTLQPSFLQPG PGP\SSSRPCAASPQSGSWESDA ESLSPCPPQRRFSLSPSLGPQAS RFLPSARSSPASSPELPLAT*G/L SATFPESRSQPCDLDARKTGVK RRHEEDPRRLRPSLDFDKMNQ KPYSGGLCLQETAREGSSISPP WFMACSPPPLSASCSPTGGSSQ VLSESEKEEEGAVRWGRQALS KRTLCQRDFGDLDLNLIEEN
21951	52319	A	22079	1	117	
21952	52320	A	22080	3	632	
21953	52321	A	22081	1	448	MQSETETVHLFIPALSVGAIIGK QGQHIKQLSRFAGASIKIAPAEA PDAKVRMVIITGPPEAQFKAQG RIYGKIKEENFVSPKEEVKLEA HIRVPSFAAGRVIGKGGKTAST\ *QNLCSGMKGKALKAKPSTYN CVGCGWSPRPRCSLN

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21954	52322	A	22082	233	2096	RREDEGNKTSWIHPSPWVVLIF RFFSLFFFKQPLFTMNKLYIGNL SENAAPS\DL\KSIFKDAKIPVSG PFLVKTGYAFVDCP\DESWA\LR AIKAFSGKIELHGKPIEVEHSVP KRQRIRKLQIRNIPPHLQWEVL DSLLVQYGVVESCEQVNTDSET AVVNVTYSSKDQARQALDK/L LDKLNGFQLENFTLKVAYIPDE MATQQNPFLQPRGRRGLGQRG S\SRQGSPGSVSKQKPCDSPLRL LVPTQFVGAIIGKEGATIRNITK QTQSKIDVHRKENAGAAEKSIT IPSTPEGTSAACKSILEIMHKEA QDIKFTEEIPLKILAHNNFVGRLI GKEGRNLKKIEQDTDTKITISPL QELTLYNPERTITVKGNVETCA KAEEEIMKKIRESYENDIASMN LQAHLIPGLNLNALGLFPPTSG MPPPTSGPPSAMTPPSPQSEQSE SETVHLFIPALSVRALISKQGQH IKQLSRFAGASSKIAPVEAPDAK VRMVMIAGSPEARFKAQGRIY GKIKEENFVSPKEEVKLEAHIR VPSFAAGRVIGKGGKTV\NELQ NLSSAEVVVPRDQTPDENDQV VVKITGHFYACQ\VAQRKI*EFL TQVRQHQQQKALQSGPPQSRR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21955	52323	A	22083	8	1675	TASCRLAMALHVPKAPGFAQM LKEGAKHFSGLEEAVYRNIQAC KELAQTTRTAYGPKGMNKMVI NHLEKLFVTNDAATILRELEVQ HPAAKMIVMASHMQEQEVGD GTNFVLVFAGALLELAEELLRI GLSVSEVIEGYEIACRKAHEILP NLVCCSAKNLRDIDEVSSLLRT SIMSKQYGNEVFLAKLIAQAC\ YLFFLIPAISMLITSEFVK/FLGS GISSSSVLHGMVFKKETEGDVT SVKDAKIAVYSCPFDGMITETK GTVLIKTAEELMNFSKGEENLM DAQVKAIADTGANVVVTGGKV ADMALHYANKYNIMLVRLNSK WDLRRLCKTVGATALPRLTPP VLEEMGHCDSVYLSEVGDTQV VVFKHEKEDGAISTIVLRGSTD NLMDDIERAVDDGVNTFKVLT RDKRLVPGGGATEIELAKQITS YGETCPGLEQYAIKKFAEAFEA IPRALAENSGVKANEVISKLYA VHQEGNKNVGLDIEAEVPAVK DMLEAGILDTYLGKYWAIKLA TNAAVTVLRVDQIIMAKPAGGP KPPSGK*NWLNFYCR
21956	52324	A	22084	175	278	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21957	52325	A	22085	208	1976	GPSPLKEHFSGLEETAYM\NILT CMELAQTTRTAYGPNGMNKM VINHLEKLLVTNDAATILRELE VQHPAAKMIVMASHMQEQEV\ GDGTNF\VLVFAGSFPVNYLKN L\WRIGLSVSEVIEGYEIACRKA HEILPNLVC\CSAKNLRDIDEVS SLLRTS\IMSKQYGLMKVF\LAK PYLLQACRIYFSWIPAISMLITSE FVK/FLGSGIRSS*VLAGMVFK KET\EGDVTSVKDAK\IAVYS\C PFDGHG*QET*GEQCLDKRTAL KDLDGIFR*GEQENLHG/AATSP KAIADTGANVVTGGKVADM ALHYANKYNIMLVRLNSKM/W DLRRLCKT\VGATALPR\LTPSL SLKEMGHCD\SVYLSEVGDTQ\ VVVFKHEKEDGAISTIVL\RGST DN/L*LDDIER\AVDDG\VNTFQ GSLQRDKRLVP\GGGSNRNLN* PKQITS\YGET\CPGLEQYA/ILK KFA*GHLKAIPPAHWQKYSGE NSGVKAQWK*SPKLYAVHQEG \NKNV\GLDIEAEVP/SLVKDML EAGIPRYLTLGKYWAIPLATNA AVTVLRVDQHTLV*FFFMQIIM AKPAG/GGPKPPKWGRKTWGD DQNGLKIGFNFYCR
21958	52326	A	22086	1	346	PF*CTPSCLWAF*TARSAQTWS APSTRSWCSEWPKSLPSPTWLR *FRKVSSYSWSQSWSSPTASTD SSRPPHSLGASCHPGHQRSLMP PSR*RATSTAYASLSSSHRPNTQ PSPS
21959	52327	A	22087	3	484	RSSQPRVGLCGKSLQP/SSEGSC HLQGWCSFPRSVSSIMAEA*RT *PRVSSSMHGRGPTQNREATKK ASSSETSV/QVTAQEAQAEPGA AGVAG/SPASAPQDSAGACWPA QVL*GGSDRSCRGSHPGNTEPP SVLRTGTAPGA*G/SSPFSPTTQS GSCCFPFSS
21960	52328	B	22088	181	359	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21961	52329	A	22089	290	2014	STCTPLPTASSQSRPHPPPTPTPP APWRSSNGQVPTLT*PGSTLPP G/SGKSPP/VASGGPARAKPHRA VHVSPAPSGGSPGDVAELPAAV AVRA*QAGSGQRLPAPVCVGE MGTLCPGEPADVHQVVCGLSE PRAPHRPGQPQARAHGVPSGQS LCPAQPG*DDS/AKVSSYSWSQ SWSSPTASTDSSRPPHSLGASCH PGHQRSLMPPSR*RATSTAWRA RTASTPRCLGPRPAPWSCASLSS SHRPNTQPSPSPTSVRRARLATP SSHGWALAPWTPMAPTQPTTW TRWGKTVSGRQMNTWRRPWS TCARYSGSAKRSSGSSHSPWAP PRMRMEKSNSPTASWVRTDSS LRPWGGTRSSMGCEGLKLSTR GTRSCSPSGAMRSPAWSAHSLG CRLPSTTDLQDRWRLCVPGMT SSAASVATTSQNLGWPAGTC*A LWGGGRWPATPAA\QAQPALP GQLPTRWSRCCWPSSWPLCSAS GPSHARCCSPWAMSSTPLP*HC *PSGGSCTSPEGVSCLQSRLEGF ATQPHPWAERTWEAPPGGNTV ILGLLERGSCSRRGIWRKRNQE RKAGRAPAKE
21962	52330	A	22090	363	487	
21963	52331	A	22091	234	282	
21964	52332	A	22092	742	990	
21965	52333	A	22093	1	206	LFPAFSDSRECKLMKKLLEA\H EEQNVD\SYTEA\VKEYDSIFPG WTQWLTTL\LLRIKKTIQG\DEK DLR
21966	52334	A	22094	128	1062	KPFEAAMYNSGKEAEAMALLA EAER\KV\KNSQSFFSGLFGGSS KIEEACE\IYARAANMFKMAKN WSAAGNAFCQAAQLHLQLQSK HDAATCFV\DAGNAF\KKADPQ GGPFNCFDCVAFEIY\TDMGR\F TIAAKHHISIC*DLLRQKLVDIE KAIA\HYRALADYYQGEESNS\S ANKCLLKVAGYA\ALLEQYQK\ AIDIYEQGWGPNAHWTSPPPSK Y\SAKDYFF\KAALCHFCMDML QA\KLAF\QKYEELFPVFSDSRE CKLMKK\LLKA\HGEQNVD\SY TE\SVKGITDSISRL\DQWL\TTH CLRI\KKTIRGD
21967	52335	A	22095	1	1038	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21968	52336	A	22096	20	2482	RVCSSSASTASQAVMADAWEE IRRLAADFQRAQFAEATQRLSE RNCIEIVNRLIAQKQLEVVHTL DGKEYITPAQISKEMRDELHVR GGRVNIVDLQQVINVDLIHIEN RIGDIIKSEKHVQLVLGQL\IDEN YL\DRVGQEVNDKLQESGQVTI SELCKTYDLPGNFLTQALTQRL AIIIIGHIDLDNRGVIFTEAFVAR HRARIRGLFSAITRPTAVNSLIS KYGFQEQLLYSVLDELVNSGRL RGTVVGGRQDKAVFVPDIYSR TQSTWVDSFFRQNGYLEFDALS RLGIPDAVSYIKKRYKTTQLLFL KAACVGQGLVDQVEASVEEAI SSGTWVDIAPLLPTSLSVEDAAI LLQQVMRAFSKQASTVVFSDT VVVSEKF\INDCTELFRELMHQ KAEKEMKNNPVHLITEEDLKQI STLESVSTSKKDKKDERRRKAT EGSGSMRGGGGGNAREYKIKK VKKKGRKDDDSDDESQSSHTG KKKPEISFMFQDEIEDFLRKHIQ DAPEEFISELAEYLIKPLNKTYL EVVRSVFMSSTTSASGTGRKRT IKDLQE\EVSNLYNNIRLFGKRG WKFF\ADDTQGWLLPKHLLEV QCVLISLNLI\FNF\LGFGILMDG Q*DDPGRPFTS\ELRKEI\LSKLS EETKVALTKLHNSLNEKSIEDFI FC\LDSAAEACDIMVKRGDKKR ERQILFQHRQALAEQLKVTEDP
21969	52337	A	22097	1	711	VLSLFDGIATGYLVLKELGIKV GKYVASEVCEESIAVGTVKHEG NIKYVNDVRNITKKNIEEWGPF DLVIGGSPCNDLSNVNPARKGL YEGTGRLFFEFYHLLNYSRPKE GDDRPFFWMFENVVAMKVGD KRDISRFLECNPVMIDAIKVSAA HRARYFWGNLPGMNRPVIASK NDKLELQDCLEYNRIA\RIFGFP VHYTDVSNMGRGARQKLLGRS WSVPVIRHLFAPLKDYFAC

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21970	52338	A	22098	406	2885	GRGILVNGACSDQSSDSPPILEA IRTPEIRGGWAVGTGVVSGADI VSGHCRQWSLLSLFQGSGTLSL AFITWAFRETRTRSESPAVSSHT SSQSTCGQHST*HT*HARGRQG RNHVDESPVEFPATRVGSPDAQ TPARSL*LGDMPHSLTIDLTDDT EDTHGTPQSSSTPYARLAQDSQ QGGMESPQVEADSGDGDSSEY Q\DGREGLLPRV/I*GP*TRGKTS YAMVVSWKATSKRQAMSGMR WVQWFGDGKFSEVSPGKGKGF CRPEAVPACLPLNKLVSYRKA MYHALEVTWDEGMRAKP*EQ G*SKRPTELEDQLKPMLEWAH GGFKPTGIEGLKPNNTQPGGNE SPWQHPLPLLVGPLLGRVRLKT NCYNNGKDRGDEDQSRGDCW VPGIMGQMGGGRCRSGIDVIPL TPWLGL*ACLVCQTCRVSPPTT ALDLPPLASSNSPLLPCEGRELL LCSNTSCCR*ALGPVGWMWVG PQGSYVPAV*EPWSCYMCLPQ RCHGVLRRRKDWNVRLQAFFT SDTGLEYVSHRLPPLPPQIPGAQ GVGKLWFDGIATGEFGEHLETL LSCHNRVARESEESIAVGTVKH EGNIKYVNDVRNITKKNVRAV CTLRASSLPVFFPSPPHPNPARK GLYGEHPSLWQSLESLCHLTTG PGAGNK/RGLGWRFQMNPALS SFLST\GVQRDISRFLEVRESGD
21971	52339	A	22099	729	896	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21972	52340	A	22100	1	2672	MAYKQGFLKVMVHFRKAEVT GKNHTSVHEGYTLISPAAQVLT ISCKKSILLQEQVSFKDVCVDFT QEEWYLLDPAQKILYRDVILEN YSNLVSVGYCITKP\EVIFKI/ES KGEEPW\VLEKGIPQAQCPPQK RKWKV/EMNVVREQPRKMKM TIFGEPPIPTTNKTVSVENGDRG SKTFNLGTDPVSLIKLSL*NM*L \SEMNLKNISGLIITKKNCSRKK PDEFNVCEKLLLDIRHEKIPIGE KSYKYDQKRNAINYHQDLSQP SFGQSFEYSKNGQGFHDEAAFF TNKRSQIGETVCKYNECGRTFI ESLKLNISQRPHLEMEPYGCSIC GKSFCMNLRFGHQRALTKDNP YEYNEYGEIFCDNSAFIIHQGAY TRKILREYKVSDKTWEKSALLK HQIVHMGGKSYDYNENGSNFS KKSHLTQLRRAHTGEKTFECGE CGKTFWEKSNLTQHQRTHTGE KP\L*CTEC\GKAFCQKPHLTNH QRTHTGEKPYECKQCGKTFCV KSNLTEHQRTHTGEKPYECNA CGKSFCHRSALTVHQRTHTGE KPFICNECGKSFCVKSNLIVHQR THTGEKPYKCNECGKTFCEKSA LTKHQRTHTGEKPYECNACGK TFSQRSVLTKYQF\IHTRVKAL* TS*MLEAFIHL/SKLVIQFQKRRS EKAKECQKFVE\KTSCLNM*KL SRKIKTFH*KICKLTVKNKGNK
21973	52341	A	22101	1	2817	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21974	52342	A	22102	474	2766	NQTALYNQAQLLHGSRFANMS AEGYQYRALYDYKKEREEDID LHLGDILTVNKGSLVALGFSDG QEARPEEIGWLNGYNETTGERG DFPGTYVEYIGRKKISPPTPKPR PPRPLPVAPGSSKTEADVEQQA LTLPDLAEQFAPPDIAPPLLIKL VEAIEKKGLECSTLYRTQSSSNL AELRQLLDCDTPSVDLEMIDVH VLADAFKRYLLDLPNPVIPAAV YSEMISLAPEVQSSEEYIQLLKK LIRSPSIPHQYWLTLQYLLKHFF KLSQTSSKNLLNARVLSEIFSPM LFRFSAASSDNTENLIKVIEILIS TEWNERQPAPALPPKPPKPTTV ANNGMNNNMSLQNAEWYWG DISREEVNEKLRDS\ADGT\FLV RDASTKMHGDYTLTLRKGGNN KLI\KIFHRDGKYGFSDPLTFSSV VELINHYRNESLAQYNPKLDVK LLYPVSKYQQDQVVKEDNIEA VGKKLHEYNTQFQEKS\REYDR LY\EEYTRTSQEIQMKRPAIEAF NETIKIFE\EQCQTQERYSKGNY HLEKFKP*RAMEKEIQRIMHNY DKLKSRISEIIDSRRRLE\EDLKK Q\AAEYREIDKRMNSIKPDLIQL RKTRDQYLMWLTQKGVRQKK LNEWL\GNENTEDHYSLV\EDD EDLPHHDE\KTWECLGSS/RTRN QSLKNLFARGSRDGTFLVRESS KQGCYACSVVVDGEVKHCVI\
21975	52343	A	22103	3	392	
21976	52344	A	22104	168	404	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21977	52345	A	22105	49	1760	YQSPAWQSHWHQKLQVRKEN MAKRVAIVGAGVSGLASIKCCL EEGLEPTCFERSDDLGGLWRFT EHVEEGRASLYKSVVSNSCKE MSCYSDFPFPEDYPNYVPNSQF LEYLKMYANHFDLLKHIQFKT KVCSVTKCSDSAVSGQWEVVT MHEEKQESAIFDAVMVCTGFL TNPYLPLDSFPGINAFKGQYFHS RQYKHPDIFKDKRVLVIGMGNS GTDIAVEASHLAEKVFLSTTGG GWVISRIFDSGYPWDMVFMTR FQNMLRNSLPTPIVTWLMERKI NNWLNHANYGLIPEDRTQLKE FVLNDELPGRIITGKVFIRPSIKE VKENSVIFNNTSKEEPIDIIVFAT GYTFAFPFLDESVVKVEDGQA\ SLYKYIFP\AHLQKPTL\AIIGLH/ IKPLGLP*LPTGETQVRWAVSG S*KVLTRLPPPSVMIEEINARKE NKPSWFGLCYCKALQSDYITYI DELLTYINTKPNL/FSLWLLTDP TSGLWTVFFGP\C\SPYQFRLTG P\GKMGKGAQEIALHGPQW\DP NISRVHSKVRSCYKEFSIFPFGK FFLKVFSFPGFGLWLFFLIFPYK
21978	52346	A	22106	262	969	EWSSVRRSLVEKRALRRPHPQC LCFRMKTIL\SNQTVDIPE\NVDI TLKGRTGIREGPPEGTLR\RDFN\ HIN\VELSLLWKEKKRGSRVDK\ WWGNQKRNWPTRSD*FVSHV QN\MIKGWLHWGFRLQG*GPV YAHFPHQPLLSRKNGVSWLKIR KFLWGEKYI\RRVSG*RPGCLL VSVSQGPRKDEINPLKG\NDIEL VSK/SSAGF*FQQATTS*KTRNI RKFL\DGIFCLLEKGLFRQA
21979	52347	B	22107	211	457	
21980	52348	A	22108	1	159	KEAENQCLDISSPGMSGHRQGH DSLEHDELREIFNDLSSSSEDED ETQHQDEK*LDISSPGMSGHRQ GHDSLEHDELREIFNDLSSSSED EDETQHQDEK
21981	52349	C	22109	167	367	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21982	52350	A	22110	754	1950	VKGKDDAPHELGE/SQFILRLPP\EYASTVRRAVQSGHVNLKDRLT\IELHPDGRHGI\VRVDRVPLASKLVD\LP\CVMEEPENPLLKKPFSKTAIIGQMLVSTVDGDLFPPVEEPSCLALDPKAS\KKKDKDKEKK\FIW\NHGITLPLKNVRKRRFRKTAKKEIYLNLPDV*KKELKR\LLEVPDA\EAVSTRWGIICPKVETKG\AENQG\LDISSPGMSG\HR\QGH\DSLEHDELREIFNDLSSSSEDEDETQHQDEEDINIIDTEEDLERQLQDKLNESDEQHQENEGTNQLVMGIQKQIDNMKGKL\QETQDRAK\RQEDLIM\KVGNLGSPRTDFQAVLGMSFNQREDREKEQL\SSLQEELESLLREVKKNLMFNFQSFRLVQHLGKFFGLLLLLGYLRPCSS
21983	52351	B	22111	227	355	
21984	52352	A	22112	121	486	WGPALCIGGYLASFLASVHLMPLR*GEMLSP*GLSFSFRFPGFKEVRLVPGRHDIAFVEFDNEVQAGAARDALQGFKITLSPLKVSPPLGAFLEPCVSEWSPHSIVPRVCPQTLHLALLGRN
21985	52353	B	22113	8	165	
21986	52354	A	22114	1	218	
21987	52355	A	22115	566	1412	TLHSMAVPETRPNHTIYIN\NLNEKIKKDELKKSLLRPSFF/SSLGQILGYSWGIHGRP*RMEGARPFSIFKEVSSGTNALR\SMQGFPFY\DKPMRIPVLPRTRLQDIHLPRIERAPFIGSRDPKAGERGRPKSQGDPGPPKEGLCKGGGSHPRGGGLSRGPGPGHCPPMT\KAPRI\MHHMPG\QPPLTAAPLDMIPPPG\LAPGQIPPG\AMPP\QQLMPGQMPP\AQ\PLWRNPP\NHILF\LTNLP\EET\NELMLSHAFSNQVPPGFKEGPVWVPRAGNEHRPSVEV

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21988	52356	A	22116	2	1176	FGELSTFDAVRGPPRRCPPDAD PRAPGLALPGRLLVSNSRRTHS RESRAPPAPHLLGARAGMAPPQ VLA\FGLLLAAATATFAAAQEE CVCENYK\LAVNCFCE*INRQC Q\CTSVGAQNTVICSKLGCQMF W*MKAEMNGSKLGRRAKPEG GLQ\NNDGLYDPDCDESGLFKA KQCNG\TSTC\WCVNT\AGVRRT HKDTEVTCSERVRTYWIIIELKH KAREKPY\DSKS\LRT*LQKEITT RYTLGSKFLSRVFWYENNVITI\ DLFQNFFSKKLRNDVDIADVAY YF\EKDVK\GESLFH\SKKMDLT VNGEQLDLDLLIPGQTL\IYNVD EKAP*/DFSMQGLK\AGVIAVIV VVVITSCCWKLLVLVISQKGRE WQKYEKAEIKGDGCRCHRELQ
21989	52357	A	22117	3	257	AKALQWPLGRGGGGTPRGSRP PGPH*SERGAVQPRSLPRQAA* RVPSGPADGQ*DGHGAADPGS RQRCKPWSEAADLHSECYSS
21990	52358	A	22118	1467	1748	SEYNCCEIGCPQPSWGPWGRG\ TDVRQGQVGEEEVHG/ECGGG SQG*RPG**AGSPAP*PGTWTGT AQQGPAAVLDPLRV*GGGIERH PLHSVGL
21991	52359	B	22119	1	1461	
21992	52360	A	22120	29	417	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21993	52361	A	22121	616	1671	TATCKPWSMRTTISSSQPQKLT NSVKLPPSAKCISVSRIGGFLVS LTSRMKLRTLLICSKLLPSGGV RGLAGSGVKLQTFTVSVTALK AACLELFTSPGGFMVLLASEVK LQTFSAGDSDCLGQGRRAQRRP GPGVSAVGASGQQRAPESNERP AEEPTPAPMPSSAPRGPTEPALR RPSSADRPLAPGAGRAPGAMAS PSGSSKATGKPRGRDGRPRREE DDVTPEEKRLRLLLEEGSAQPD DGEDAPRPGRKETGTQTGGDG RGAARAALLAVGGIRAPLPSLG VAPGC\PMSKPPRRHPGATPR/P GQGGSDAAHGEEGCPCCSSAV ATCLGAGLLP\PGRGASSPSSGC ALPSSSNSRSLFSSGVTSSSSLLG RPSLPRGLPVALELPEGLAMAP GALPAPGASGLSAELGRLSAGS VGPRGA\G*ASGRAWAPPRAAR CSLAPSAG\PRAHRGHAGPWPA LSSP/GPGPSSRCPLPRRSAASLL KPAR/AINPPGEVNNSRHAALR AVTLTVKVCSFTPEPARPRTPPE GRSFEHIRRVRSFILEVSETKNP PILDTLIHLALGGSFTLFVNFCG WDELIVVLIDQGLHVAV
21994	52362	A	22122	892	1931	CTWNENQRMEIVWEVLFLLQA NFIVCISAQQNSPKIHEGWWAY KEVVQG\NFVPVPSFWGLVNSA WNLCSVGKRQSPVNIETSHMIF DPFLTPLRINTGGRKVSGTMYN TGRHVSLRLDKEHLVNISGGPM TYSHRLEEIRLHFGSEDSQGSEH LLNGQAFSGEVQLIHYNHELYT NVTEAAKSPNGLVVVSIFIKVS DSSNPFLNRML\NRDTF\TRN*H FKNDGIFYYRGL*YRGELLFQG TSSFITYDGVDGLFPTPGY/SRT ASWIIMNKPV*YNPGCKMHSLR LL\SQEPAISRSFLSMSDNFRPV QPLNNRCIRTNINFSLQGKDCP NNRAQKLQYRVNEWLLK
21995	52363	A	22123	17	417	
21996	52364	A	22124	63	449	CHPALLGPTGHGAWPRHRAPD TLRASAGGRDP*GRRSAPA*ER QP*PPVYCAGISQYD*TALSSCL RRSVRTSTDFRSLLDKSNYSVF LCFLQLAGRRYFAMWTRPEFFL ARDPRSLSWGLEWRPLSL
21997	52365	B	22125	1	1131	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21998	52366	A	22126	359	548	
21999	52367	A	22127	755	1031	TRGVLEHMALGKGTLKDPSGP AP*NHPE\VSHAASTQEAAGPP AGRPGHGSGCLALPASSTSLEP GLRQDHDLLLQLLWREQEVFH DVIQLL
22000	52368	A	22128	1	277	
22001	52369	A	22129	1	933	
22002	52370	A	22130	339	863	PSPVPARPVCPSSAPISMRPPCP WREAEAADLRPEAPGHRDGED VGFLSSGQLSGLCSKRKLQPTR AALTLTPSAVNKIK\HFLKNNPE HVGVKVGVRTRGCNGLSYTLE YTKTKGDSDEEVIQDGVRVFIE K\KAQLTLL*TEMDYVEDKLSK GVGV\ITPNIKGTCGCGESFNI
22003	52371	A	22131	16	419	QIQHRPWP/SRSYTNVLGRKVV YLPSFFTYAKYIVQVDGKIGLF RGLSPLMMSNALYTATRCFMK KDLPPDEIEQVSNKDDMTTSLN KVANDTSYEMMMHCVSRMLP HPLHVISMRCMDQIVGREAKYS GVLSSIG
22004	52372	A	22132	3	441	RSYTKFVMGIAVSMLTYPFLLV GDLMAVNNCGLQAGLPPYSPV FKSWIHCWKYLSVQ\GASTGRR RPFLFFATSFS*NGFVDASLHAK GQLFRGSS\CFSAGCHQDHALP WSNLNHLKNTVSTWPPWVRPD HLGTPARRLQPNNNQM
22005	52373	A	22133	1	1232	MAGAGAGAGARGGAAAGVEA RARDPPPAHRAHPRHPRPAAQP SARRMDGGSGGLGSGDNAPTT EALFVALGAGVTALSHPLLYV KLLIQVGHEPMPPTLGTNVLGR KVLYLPSFFTYAKYIGQRDG\RE GLVPRLSPRLMSNALSTVTRGS MKKVFPPDEIEQVSNKDDYEDF P*RKLLKETSYEMMMQCVSRM L\AHPLHVISMRCMVQFVGREA KYSGVLSSIGKIFKEEGLLGFFV GLIPHLLGDVVFLWGCNLLAHF INAYLVDDSVSDTPGGIGKRPE SRFP\FSQALALRSYTKFVMGIA VSMLTYPFLLVGDLMAVNNCG LQAGVPP\YSPVFKSWIHCWKY LSVQGQ\LFRGSS\CFSAGCHQD HALPW\SNLNHLKNTV\STWPP WV\RPDHLGTTARRFQPNNNQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22006	52374	A	22134	3	1156	PRHPRPAAQPSARRMDGGSGG LGSGDNAPTTEALFVALGAGV TALSHPLLYVKLLIQVGHEPMP PTLGTNVLGRKVLYLPSFFTYA KYIVQVDGKIGLFRGLSPRLMS NALSTVTRGSMKKVFPPDEIEQ VSNKDDMKTSLKKVVKETSYE MMMQCVSRMLAHPLHVISMR CMVQFVGREAKYSGVLSSIGKI FKE\EGLLGFFVGL\IPHLLG\DV VFLWG\C\NLLAHF\INAYLVDD SFS\QAL\AIRSYTKFVMGIAVS MLTYPFLLVGDLMAVNNCGAA SWGSPPYSPVFKSW\IHCWKYL SVQGQLFRGSS\CFSAGC\HQDH GFALGVN*NHLKNT\VSTWPPW VRPDHLGTPARRLQPNNNQMC SSPAG\FQFHICHVSV\QMWG
22007	52375	A	22135	2	425	
22008	52376	A	22136	2	430	
22009	52377	A	22137	2	406	
22010	52378	A	22138	1	297	
22011	52379	A	22139	1	111	
22012	52380	A	22140	1	398	
22013	52381	A	22141	1	409	
22014	52382	A	22142	500	1234	GPNCRPPSCSAVEGAWPRPQGA GARAAIALSQKLELGGVGLVQ VQCPSLAPSSTSSILFLCLLPHPP PHRCLQENTTCLLGVEGVLLLQ SPFPLLKTDHSSLPALAPTQSQA ALWGFADFGFMFESSPGGNLG WEPDIKLTDEMVMIMGGKMEA TPFKWFMEMCVRGYLAVRPY MDVVVSLVTIMLDTGLPCFRG/ QIKFLKHRFSPNMTEREA*NFIM KVIQSCFLSNRSRTYNMIQYYQ NDIPY
22015	52383	A	22143	2	6378	SAGPAGPLQVQKLLCMCPVDF HGIFQLDERRRDAVIALGIFLIES DLQHKDCVGPYLLRLLKGLPK VYWVEESTARKGRGALPVAES FSFCLVTLLSDVAYRDPSLRDEI LEVLLQVLHVLLGMCQALEIQ DKEYLCKYAIPCLIGISRAFGRY SNMEESLLSKLFPKIPPHSLRVL EELEGVRRRSFNDFRSILPSNLL TVCQEGTLKRKTSSVSSISQVSP ERGMPPPSSPGGSAFHYFEASC LPDGTALEPE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22016	52384	A	22144	3	398	IHKAASGVPQQPDAGCPGTGEQ QGGQRCGQ*AGP/AQAPC*SRA GTR/PTCFFVLTSLRSWYRVDSP NKLMNPLVAGFFG/CHCGSGQC LRKCSSARDRAPDARPGLDLAQ GRCCHCNKACLHASETGVGTT SVL
22017	52385	A	22145	344	498	
22018	52386	A	22146	344	406	FLADQEDPLDPRAGCR*ETTAP RIPSKGPSSTEPLHASTAVPPCQ GELGCSRASPASEKI/DLAGRLIS PCNSDTVSPGLGGFMTCAQSLI SRRPGGPIGPPGWLQGPHLG
22019	52387	A	22147	3	2058	LSGSGAPPPGVGAQAAAAAEE EEREVVRVRVKVRLAVSRPSRR GKFRSFAVDPQITSLDVLQHILI RAFDLSG*VGRCWGLLGRDRL GQEVYLSLLSDWDLSTAFATAS KPYLQLRVDIRPSEDSEYSVPPG AISPKDVIGSDVLLAEKRSSLTT AALPFTQSILTQVFSGTLGTQQ VLSWSYGEDVKPFKPPLSDAEF HTYLNHEGQLSRPEELRLRIYH GGVEPSLRKVSILSHLLVYPDG LTGRERMDYMKRKSREYEQLK SEWAQRANPEDLEFIRSTVLKD VLRTDRAHPYYAGPEDGPHLR ALHDLLTTYAVTHPQVSYCQG MSDLASPILAVMDHEGHAFVC FCGIMKRLAANFHPDGRAMAT KFAHLKLLLRHA\DPDFYQYLQ EAGADDLFFCYRWLLLELKREF AFDDALRMLEVTWSSLPPDPPE HEVELVGPPSQVADTGFGDHR G\WPVRQRHMLRPAGGGGSTF EDAVDHLATASQGPGGGGRLL RQASLDGLQQLRDNMGSRRDP LVQLPHPAALISSK\GLSEPLLN YPDPLLSSFSHPDSPSSSSPPSTQ EASPTGDMAVGSPLMQEVGSP KDPGKSLPPVPPMGLPPPQEFG RGNPFMLFLCLAILLEHRDHIM RNGLDYNELAMHFDRLVRKHH LGRVLRRARALFADYLQSEVW
22020	52388	A	22148	130	387	
22021	52389	A	22149	1	279	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22022	52390	A	22150	105	499	DMSDTSESGAGLTRFQAEASEK DSSSMMQTLLTV/TPEAREAPA TQASSTTQLTDTQVLAAENKSL AADTKKQNADPQAVTMPATET KKVSHVADTKVNTKAQETEAA PSQAPADEPEPESAAAQSQENQ DTR
22023	52391	A	22151	285	984	TSLSCYFSRTKDSPKLGLLMVL LSIIFMNGNRSSEAVIWEVLRKL GLRPGYDWALSALAVRVVLW QERTVLGLHQSGGLVERVGCW TG*RAQGSDLGG*WVNGPELS APSLSVSWASMELPSCAGNLFS ILEMPLPTSGKCHSLE*IYLFIYF SFSSLRIHHSLFGDVKKLITDEF VKQKYLDYARVPNSNPPEYEFF WGLRSYYETSKMKVLKFGCKV QK\KDPKEWAAQYRE
22024	52392	A	22152	259	578	
22025	52393	A	22153	296	2242	NMSDTSESG\AGLTRFQA\EASE KDSSSMMQTLLTVTQNVEVPE TPKASKAL\EVSEDVKVSKASG VSKATEVSKTPEAREAPATQAS SYLLSLTD\TQVLAA\ENKSLAA *HQGNRMVDPQAC*QLPAT\ET KKVSHVADYGRFNYKGFRRLR LAPS\QAPADEPEPESAAAQFSG RFRVFGPKVKAKKARKVKHLD GEKDGSSDQSQASGTTGG\RRV SKALMASMARRASRGPIAFWA RRASRTRLAA\WARRAFALPLEI TLKPRRAKGLRR\RVAKFQ\SSQ EPEAPPPRG\LALLQGRAN\DLV KYLLAKDQTKIPIKRSDMLKDII KEYTDVYPEII\ERAGYSLE\KVF GIQLKEIDKNDHLYILLSTLEPT DAGILGTTKDSPKLGLLMVLLS IIF\MNGNRS\SEAVIWE\VLRKL\ GLRP\GIHHS\LLGDVK\KLITDE F\VKQKYLGLCQKVPNSNPP\EY EFLLGACALY**EPAKMKSPQS FACK/VYQKEGSPRNWGSSVPP REGKGRMEADFEGCKLRLTLE AKAKGPRLEAPNGPLGLGSGE MLAGP\CNWDEA\DIGNPWAK ARIPRREQKLKAKAPKRSGSA\S TGA\STST\NNSAS\ASA\STSGGF \SAAASL\TATLHIWGSSAGLWL ELGCQHQSARSGAC\GVSYK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22026	52394	A	22154	1	487	EFRQPSFRRSIWP/YFLLTQA/VR TGNPAKFNQVLDQFGEKFQAD GTYTLIIRLRHNVIKTGVRMISL SYSRISLADIAQKLQLDSPEDAE FIVAKAIRDGVIEASINHEKGYV QSKEMIDIYSTREPQLAFHQEG KDSSVYSFREWGTRTGMSWLV CFLKLRL
22027	52395	A	22155	2	429	
22028	52396	A	22156	1	328	GTRFQADGTYTLIIRLRHNVIKT GV/RSGSEGLLEEQKPGQGKPS GYPWASEGSVSTLPTPSLLPLPG VRMISLSYSRISLADIAQKLQLD SPEDADFIVAKVGLVQEPQ
22029	52397	A	22157	138	2206	AVTPGAMKQEGSARRRGADK AKPPPGGGEQEPP\PAPAPQDVE MKEEAATGGGSTGEADG\KTA AAAA*SNFPAKSWDYSHLWKD IKEHRETS*RKAVSGKEPRFVLR ALRMLPSTSRRLNHYVLYKAV/ QGAFFTSNNAT\RDFLLPFLERA HGTQEADLLFRPRTGKAAGT\P LLPEVEAYLQLLVVIFMMNSKR YKEAQKISDDLMQKISTQNRRA L\DLV\AAKCYYYHARVYEFL\D KL\DVVRISLHG\RLRTATLRHD ADGQAT\LLNLLLRNYL\HYKL VPTSLRSLVSKSVFP/EEQAQQP NEWGQVTSYLHQGRIKAIQ\LE YSEARRTMTNALRKAP\QHTAV GFKQTVHKLLIVVELLLGEIPDR LQFRQPSLKRSLMPYFLLTQAV RTGN\LPRFTQVLDQFGEKFQA DGTYTLIIRLRHNVIKTGVRMIS LSYSRI\SLADIAQKL\QLDSPE\D AEFI\VAKAIR\DGVIEASIN\HEK AYVQ\SKEMIDIYST\RDPQLAL H\QRISFCLDIHNMVWSRPMRV PSPKSYKQGSWSLQRNGRERR NKQDLE\FPKEMA\EDDDDSFPL KLGGWGGVRGKWGTRQLCPP WGYPLPQGTCPPFSPHTAHML AFRGRGWGCWEPATPDLPPGL LPSRVTLLVQPGRRVGRQPPRG RVLASSVADRRGRISLCTPFRE WGTRTWDVYGLLCFLKLRL
22030	52398	A	22158	86	348	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22031	52399	A	22159	3	356	LPLSMDVRAPPAVMAAVDQAL KEFGRIDILINCSSSSCGLPFCR\ AAGNFLCPAGALSFNAFKTVM DIDTSGTFNVSRVLYEKFFRDH GGVIINITATLGNRGQALQVHA G\SAKAAVD
22032	52400	A	22160	3	255	GPWSCHAGA*GPGATQVSEDQ GLREPHGSRDLCSLG*KH*GAPI CAWPMSWDGPPAAHKVRPSVS APPVCINTLCYNLASAFS
22033	52401	A	22161	3	360	
22034	52402	A	22162	240	1356	AGNPSGIPGTRVHRGQRGGFAS TWSGRGAGSTPLQNSPPRQPHR EKEFLRQVLEGGSHTGVFRPSA ARLVPNPHSLVSPDLL*LVSRA T\PHIFLAARKLAGATGRRCLPL SMDVRAPPAVMAAVDQALKEF GRIDILINCESVLSEVGGFSQAP AAPAVSHSAGAAGNFLCPAGA LSFNAFKTVMDIDTSGTFNVSR VLYEKFFRDHGGVIVNITATLG NRGQALQVHAGSAKAAVDAM TRHLAVEWGPQNIRVNSLAPGP ISGTEGLRRLDASQGMSWGRG EGAGSWGSRGLSLLLPS\GGPQ ASLSTKVTASPLQRLGNKTEIA HSVLYLASPLASYVTGAVLVA DGGAWLTFPNGVKGLPDFASF
22035	52403	B	22163	214	1647	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22036	52404	A	22164	1765	1910	LSHPHSRTPPNRTPRRTRIPQRP AVMYSPLCLTQDEFHPFIEALLP HVRAFAYTWFNLRARKRKYFK KHEKRMSKEEERAVKDELLSE KPEVKQKWASRLLAKLRKDIR PEYREDFVLTVTGKKPPCCVLS NPDQKGKMRRIDCLRQADKV WRLDLVMVILFKGIP\LESTDGE RLVKSPQCSNPGLCVQPHHIGV SVKELDLYL\AYFVHAGRISSQS ESP\SQ\PSDADIKDQPENGTFGA SRDSFVT\SGVF\SVT*A*LRVSQ TPI\AAG\TGPNFSLSDLESSSYY SMSPGAMRRSLPSTSSTSSTKRL KSVEDEMDSPG\EEPFYTGQAR SPGKWTVSPSGLSVSWSQGMPS PTTLKKSEKSGFQQPLPFHRPPS LGNGFHTAFTDLFIYQGPQSKF HIATPSIL\HFPRHSPFFQQPGPY FSHPAIRYHPQETLKEFVQLVCP DAGQQAGQPNGSSQGKVHNPF LPTPMLPPPPPPPMARPVPLPVP DTKPPTTSTEGGAASPTSPTTRS /PGRTRPQQPFL/SYGPP*PHFLR AGIHHL
22037	52405	A	22165	63	250	
22038	52406	A	22166	1	817	SRLGHPRKDMDDDTKATLISY MSLSFRHGYCFSEDPCVHTELG IQSGRGGRGDPDPPGNALE*LA HLGP/SSHLGP*AQDGLVDAAG RASPLAGTEGAGRFSHLQPI/GP RGPPE*GAAGERFPSGVAG/GPR GAHGLPCPEQLQLQPPPPS*MP KTGSTFVAHFPSPLAQGHSPPG GGAGWCSGCSPDRPPLLGVGS HGELLNPNSPAYEVGAG/RPAT GSSGTRAGPPSPSHSAPGRTPSV SLCD/RHQCLRASPTGSIGSLPA HWREGLAGPLMD

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22039	52407	A	22167	240	1790	TAKNSYLESCPLHMENSIHQWP RQPFPPVRRQGADAACGAGSQ ALVPSHSDTDGVLPGAEWLGD GGPARVP/GAAGGRGPAPTS*A GP*LSL*APLCF\SGLSGNGKQL LGAAGRSSSHAQMHELHPAQ* HE*ATDHTGGQGPP/G*KQQNG PP/GPDNDLPAPESTPPTWNEDF LPDAIPLAHPVPRQRRPTGPAGP PGQTGPPGPAGPPGSKGDRGQT GEKGPAGPPGLLGPPGPRGLPG EMGRPGPPGPPGPAGNPGPSPN SPQGALYSLQPPTDKDNG\TQG WPLPSWTQCW/SGVPGPRGPPG PPGPPGPRGPPGPPGTPGSQGLA GERGTVGPSG/AGGAAAERGPE DPGRASPHPGAHDWDPRSPGLP RGRFWPGCCPESQPQDEEGWH PTRWGPCCPAWARPWTEERG/S RPAAGS/RGVSDISETPGRPIYPD DKSQSAVSVLCARSRLRAQLRP GAEQMNDCKGITGTRQDIHAV SFASEHNIQNWVSKHLQLSPPV TPATQAPLKVRVPQASTLVL
22040	52408	A	22168	104	271	PSCTNPYGGGRRCDSVVPNQCF TKHMQSRLLG*GEKALEGGGG RGVKSLVTKRDF
22041	52409	A	22169	494	1074	KGTTLCQKHWGGGYLHWG\HF EMMRLTIN\RSMDPKNMFAIWR VPSPFQ\PITRKSVGHRM\GGGK\ GAI*HYLTP\VKAGRLV\VEMG GRCEFARSAKVSLTQVALRSCP FASKRL*ACGTPREGCEQDQEE RERQQPRTPWTI*AE*PTAQHG WAYGKVPEPHMTLTPQGEILG ARFYMPKTCVVSVGDILYIGY
22042	52410	A	22170	61	329	NQRSGKKSQPW*STITPPSLIWL SNSSTTLSSSKMGQSYSSS*PSY NCSVSRMFGSNMVPAATASGA SLTCPLLWLSMTHFRRKVGGW A
22043	52411	A	22171	21	444	STAQSISRSDLHYFLALLVYYW AADARFLPGRIPWLIHKELEKS HTEYCLVGSSQYTPLVQVFRSN TLVSVLSTKTI*NQRSGKKSQP W*STITPPSLIWLSNSSTTLSSSK MGQSYSSS*PSYNCSSRAKSPTL TVFQS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22044	52412	A	22172	163	1056	LEKSDHRISWSPGKTA\SPKSMP ERWHR*WAQILKD\MGIT\EYEP R\VIN\QMLEF\AF\RYVTTIL\DD AKIYSSHAK\KATVD\ADDVPIG QSRC\RAGSSLFTSPPPKRF/LLL RYLARQKKSNPFCPLIKPY\SGP RLPPDRYC\LTAP\NYRLKSFTE KGHSTSAGKELTVP\RLSVGFRL LSRTKVLPTLGAHPTPQ\TMSVF NLK*GTPHVPSPGQRFTSTRCPT S\QS\PAVKSFQFPGNLSQFQNV L\INPIH*IGSQKHSYYPLNMMS S\QNTA\NESSNALKRKREDDD DG\DDDDDDYDNL
22045	52413	A	22173	215	344	
22046	52414	A	22174	302	1330	ACEQKRGGEGGNKNRERRKGE KAGRRQGTRQPCSRCMRRTKQ VEKNDDDQKIEQDGIKPEDKA HKAATKIQASFRGHITRKKLKG EKKDDVQA\AEAEA\NKKDEAP /VFADGVEKKGEG\TTTARSSPQ PLAPKP\DEPGKAGETS\SEEKM GEG*LLATEQGSPPRLLAS\SEE KAGSAETESATKASTDNSPSSK AEDAPAK\EEPKQADVPA/AFG VFPNPLGALLLAATTPAAEDAA AKATAQPPTETGESSQAEENIE AVDE\TKPKESARQDEGKEEEP EA\DQEHAWNSGEMGFPHPHPP GCLACLSLPSSQLHSEVPSCPAH VCESVLSHPLALFLSVWANI

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22047	52415	A	22175	2	1577	HGFRLPHPQPALRRLLDQRRPK TEDRCGHWDQILDLSIIKHLFS MSFIPVAEDSDFPIHNLPYGVFS TRGDPRPRIGVAIGDQILDLSIIK HLFTGPVLSKHQDVFNQPTLNS FMS\LGHAAWKEARVFLQNLL/ SL*SQARLRDDTELRKCAFISQA SATMHLPATIGDYTDFYSSRQH ATNVGIMFRDKENALMPNWLH LPVG\YHGRASSVVVSGTPIRRP MGQMKPDDSKPPVYGACKLLD MELEMAFFVGPGNRLGEPIPISK AHEHIFGMVLMNDWSARDIQK WEYVPLGPFLGEEFWGPLSLP WGGCPWDAL\MPF\AVPNPKAV PQAPCRYLCHDEPYTFDINLSV N\LKG\EGM\SQAAT\ICKVQILK YMYWT\MLQQAHSPTLSNGC\N LRPGGPPGLSGTHQAGPEP/EKN FGSMVE\LSWKGTKPI\DLG\NG QT\RKFLLD\GDEVIITAMATRD FKWYC\QGDG\YRIGFGQ\CAGK VLPALLPIMRFSLLFWKQRAQS TPFQPCDWGSSPRAVGLVPPFQ
22048	52416	A	22176	3	623	DSRNSSILPRRGALLKVNQELA GYTGGDVSFIKEDFELQLNKQL IFDSVFSASFWGGMLVPIGDKP SSIADRFYLGGPTSIRGFSMHSI GPQSEGDYLGGEAYWAGGLHL YTPLPFRPGQGGFGELFRTHFFL NAGNLCNLNYGEGPKAHYIVK LAECIRWSYGAGIV\LRLGNIAR L\ELNYCVPMGVQTGDRICDGV QFGAGIRFL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22049	52417	A	22177	352	2397	GPMSEGIASQGARRRRGIMGLR GLWASRADGRRGETEPEAKQEI LENKDVSFLLKVLIELLVETFTS IHH*GDDVFKAKNLIEVGVVST WCAFPVSSEELVNVPM*NIDTC QGTYCGVVSL*FPFCPSEKSCFY GQNNTMVGNNEGSMVCYRLF TFLYWNLELGTFTL*LHSKETS YGLSFFKPRPGNFERK*EAQQII EYTGLIEKLK*VAYL*KSAEYS VS\AFQSFPLGLGENRVAFSLIP KGSYLIQ*VSNGCWHLHCQPLL WGSYHRILAELRVLIESTWPFE G*LCNGTSQAFSCGPCTPSRSSA RHGHSVCGQLLVADVPGVKG MLGENNHLFLKY*SMNG*FA/L YFPLDLFSCFL*ESFPLTAPSLEG SRLTLETMYLLCQGGFGELFRT HFFLNAGNLCNLNYGKTCAIQE TIVVQLFSCLKAQYTKIRLGNIA RLELNYCVPMGVQTGDRYVLG IIFHNHIPLSSNFILFWTWFASGD TAGAARLLRLPTDDRAFRDGG GCSHNRQLPFPSTPLLFSTQSPS WKGCSHAGCMHVCLGAQLPG LGAQLGHGSESQVERLLACGG RWGARRQGCCWHDLPKAPHA GCFLAGEKKVGDDQEPCTKTA AVREGESVGCTAEGGCLGLSG GCQGWLAPGLVELRSAAARQE GSRRRRKRRRHLLRVHPQKVV
22050	52418	A	22178	1	1017	
22051	52419	A	22179	1	435	
22052	52420	A	22180	1	1353	
22053	52421	A	22181	1	834	
22054	52422	A	22182	2	2675	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22055	52423	A	22183	72	1339	AMRGANAWAPLCLLLAAATQ LSRQQSPERPVFTCGGILTGESG FIGSEGFPGV\WPPESKCTWKIT VPEGKVVVLNFRFIDLESDNLC RYDFVDVYNGHANGQRIGRFC GTFRPGALVSSGNKMMVQMIS DANTAGNGFMAMFSAAEPNER GDQYCGGLLDRPSGSFKTPN\W PDR\DYPAGVTCVWHIVAPKNQ LIELKFEKFDVERDNYCRYDYV AVFNGGEVNDARRIGKYCGDS PPAPIVSERNELLIQFLSDLSLTA DGFIGHYIFRPKKL\PTT\TEQPV\ TTTFPVTTGLKPTVALCQQKCR RTGTLEGNYCSSDF\VLAGTVIT TITRDGSLHATVSIINIYKEGNL AIQQAGKNMSARLTVVCKQCP LLR\RGLNYIIMGPSRVKDGAR QNSWPNSFIMMFQT\RNQKLLG CP*KISQC
22056	52424	A	22184	49	170	HTVGDGRLLRRP*REFGASFL* CFLEARFGLKNWGHCWRH
22057	52425	B	22185	597	651	
22058	52426	A	22186	1	791	
22059	52427	A	22187	2	943	TGACAEPRVGLLFRLKGRCRG GRNMELGSCL\YGFREAAEEEG EPEVKKRRLLCVEFASVASCDA AV\AQCFLAENDWEMERALNS YFEPPAEES\ALERRPETISEPKT YVDLTNEETTDSTTSKISPSEDT QQENG\SMFSL\ITWEYLMGL\D LKQSVQRRARGVCSYLAL*VLS LLFNSNVSYVYTERMNQLKMV LKKMQEAPESATVIFAGDTNLR DREVSDKVSLMFEDRLLLWRLI *VPFCQYTWDTQMNSNLGITA ACKLRFDRIFFRAAAEEGHIIPR SLDLLGLEKLDCGRFPSDHWGL LCNLDIIL
22060	52428	A	22188	277	534	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22061	52429	A	22189	29	1305	VGVVLRVECPLCPGPAPMSVPA FIDI\SEEDQAAELRAYLKSKGA\ EISEENSEGGLHVDLAQIIEACD VCLKEDDKD\VESVMNSVGIPY SWIL\EPDKQ\EAFDLKALCEKA GSKFPRR*TAPSLETCSFLSNLF H\GMG*GILPVKIHSVICSL\IKV\ AASCG\AIQYHPQLEPGIKFRK WDFLNWN\LTTGKKSTPLLKTT FMKALVE\CKKSDAASKGM\VE LLGSYP\EGNASQ\ARVDAHR\C IV\RALKDPN\AFLFD\HLLT\LKP VKFFGKASLFHCSFLTKF\VSA* MGHHMSRFYPD*LRTFH*IPLG PVTMDPGIWPKMRLLF/TFMGN GQ*KNKEISF*PQCQQEPSRLGA D\DVESHLVIDA\VRN*KWVYC QNWSRPRRKVVVSHSTHR\TFG K\QQWQTTVLTHLNAW\KQNL NK\VKNSLLSLF
22062	52430	A	22190	194	413	
22063	52431	A	22191	3	160	EVKFQWVLSLG*SFSLPKSSFQ RCGAGGAVHWSTALFLLGAAS ASSYHQRPG
22064	52432	A	22192	268	473	
22065	52433	C	22193	93	500	
22066	52434	A	22194	2	398	FFLRRSLALSPRPDCGLQWRNL GSLQAPLPGFTPFSCLSLPSSWD YRRPPPRPANFLYF**RRGFTLL ARMVSIS*PHDPPASASQSAGIT GVSHRARPETYNFCSFIISSLPV EPEARKMTKNSDIGEIW
22067	52435	A	22195	972	2180	PRHCCASASSAPAPSRPASSSSP PAACPW*GSLLGPAATPATWR R
22068	52436	A	22196	2271	3074	RDPSTPTVVRSLGVPLLSRRRFK MAPSVAATKLAERNETMVQTC WTETQSSSDGSTPRRVRISLAL WRPSLFFSMADTSLVLNFPRVS SSGVIRPSNKRPSLAILTRISRTS SPKYMPLTIFSNSCFPGLRDPRSI SLSNSVRMSSNDPSSPKAPHS/G IDTHPPLVSFHQINVPQFLHVAS IGASADDQADFTVLVVIATGHH GAHCVIHHSYDVGIIVPSLFDGF VKQFDHICSFHSARFKSLCPGD QDGLIYFGLLARKRKRESHR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22069	52437	A	22197	1956	2747	FAFSPK*HSCLRCPCI*FSSGLLH EVL*LLPLCWP*THGWDPGSRE ANKSPKLHAIRCVWVLEEENL WLSSNSQSLQTVKN*ESHIN*SC RSNLI/HH*FWNQVK*K*LLNIS GNCFFFLRWSL/DSVAQAGVY WRDLGSLQPPPPGFKRFSCLSLP SSWDYWHLPPCLAKFCIFSRDG /GFTIWARLVLNS*SCDLPASGS QSAGITGVSHHTW\LQVTYFLK EMRSCYFSQVGWPQTPGLKQC SHLKLLSSWDYRHMSPHLAISG
22070	52438	C	22198	85	228	
22071	52439	A	22199	2	434	
22072	52440	A	22200	1	1356	
22073	52441	A	22201	146	1909	ILHSLEISALLSLMMLTIGDVIK QLIEAHEQGKDIDLNKVKTKTA AKYGLSAQPRLVDIIA\SVPPQY RKVLMPKLKAEPIK\TA\SGIVV VAVMCKPHRCPHISFTGNICVY CP/GVGPDSDFEYSTQSYTG\YE PTSMRS/IFRARYDPFLQTKDRI EQ*RQLGHSVDKVEFIVMGGTF MALPEEYRDYFIRNLHDALSGH TSNNIYEAVKYSERSLTKCIGITI ETRPDYCMKRHLSDMLTYGCT RLEIGVQSVYEDVARDTNRGH TVKAVCESFHLAKDSGFKVVA HMMPDLPNVGLERDIEQ\FTEFF ENPAF\RPDGLK\IYPTLVIRGTG LYELWKS\GRYKSYFS**PGLN WVARFLALVPPWTRVYRVQRD IPMPLVSSGVEHGNLRELALAR NEDLRIQCRDVRTREVGIQEIH HKVRPYQVELVRRDYVANGG WETFLSYEDPDQDIL\IGLLR\LR KCSEETFRFELGGGVSIVRELH VYGSVVPVSSRDPTKFQHQGFG MLL\MEEAERIS*RRNMGLGKI AVISGVGTR\NYY\GKIGYRLPR PRTMVKMLEIMGHTQSHSFCSI LPWHEHRRIRISLNTQQRGL
22074	52442	A	22202	1	457	
22075	52443	A	22203	2	297	CVMYRDYPLELFMAQCY/GNIS DLGKGRQMPVHYG/CKERHFV TISSPLATQ/IPQAARGPGYGIM/ SIRVDGNDVFAVYNATK/EARR RAVAENQPFLIEARPT

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22076	52444	A	22204	3	1446	DWLLAKMAEAIAAAR\VWRLN RGLSHAALLLLRQLGGSGD*AR SHPPRQQQQCSALDDKP\QFPG ASAGVIDKLEFIQ\PNVISGIPIYR VM\DPQGQIHQPQARDPHLAEG ERWLKL\YKS\MTLL*HPWDRIL **VFSGQGRILLLT*TNYWLRR GTHVG\SARRLGQTRTLVFGQY RE\AGVLMYRDYPLELFMAQC YGNISDLGKGRQMPVNYG\CKE RHFVTISSPL\ATQDPSGRWGAA YAATGGANANRVR/VICYFRAR GAAS*GGDAHA\GF\NFRCHNL SCPIIFFCRNNGYAISTPTSEQYR GDGIAARGPG\YGIMSIRVDGN DVFAVYNATKEARRRAVAENQ PFSHQAHDSRVQAPSP\SDAS*T YRSVDEVN\YWENKGPPILPGF GHYLFSQ\GWWDEEQQKAWR KQSRRKDPGPVQPS\VMEAFEQ AERK\PKPNP\NLL\FSDVYQNM PAPVRQPPES\LARHFKTYGNH YPWDHFDK
22077	52445	A	22205	2	292	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22078	52446	A	22206	1	1894	QSLADLLQSQPSITLTSQIWPSP A*GFWSWGNLSVTTPSK\PATP TRTIAATPIQTLPQSQTAPKRID TPSLEEPSDLEELEQFAKTFKQR RIILGFT\QGDAGLAMVKLYGN DFSPTTIFRFEALNLSFKNMCKL KPLLEKWLNDAENLSSDSSLSS PSALNSPGIEGLSRRRKKRTSIE TNIRVALEKSFLENQKPTSEEIT MIADQLNMEKEVIRVWFCNRR QKEKRINPPSSGGTSSSPIKAIFP SPTSLVATTPSLVTSSAATTLTV SPVLPLTSAAVTNLSVTASTSEA SSASETSTTQTTSTPLSSPLGTSQ VMVTASGLQTAAAAALQGAA QLPANASLAAMAAAAGLNPSL MAPSQFAAGGALLSLNPGTLSG ALSPALMSNSTLATIQALASGG SLPITSLDATGNLVFANAGGAP NIVTAPLFLNPQNLSLLTSNPPG GFTIEISNNNSTMVMTGMRIQIG TQAIERAPSYIEIFGRTMQLNLS RSRWFDFPFTREEALQADKKLN LFTVRKFQNIRHTLFKCENKNT FQQCLLLEQDSSCGTGFCSMTT YPVMLLSSEQPVQSLSVRQCVI LLDAAAVISGGMGAVCLLLTH LCPLCYAGLLSEITDPESFVKDL LYSVP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22079	52447	A	22207	1	2417	MRVRTSSLPSTMLRVQNYARA KAGPEYAFVDSTECSPQWMVS PLKRGTQTNGLDFQKQPVPVG GAISTAQAQAFLGHLHQVQLA GTSLQAAAQSLNVQSKSNEESG DSQQPSQPSQQPSVQAAIPQTQ LMLAGGQITGLTLTPAQQQLLL QQAQAQAQLLAAAVQQHSAS QQHSAAGATISASAATPMTQIP LSQPIQIAQDLQQLQQLQQQNL NLQQFVLVHPTTNLQPA\QFIIS QTPQGQQGLLQA\QNLLTQLPR QSQANLLQSQPRI\TLTSQPATP TCTIAATPIQTLPQSQSTPKRIDT PSLEEP\SDLEELEQFAKTFKQR RIKLGFTQGDVGLAMGKLYGN DFSQTTISRFEALNLSFKNMCK LKPLLEKWLNDAENLSSDSSLS SPSALNSPGIEGLSRRRKKRTSI EA\NIRVALEKSFLEN\QKPTSEE ITMIADQLNMEKGVIRVWFCN RRQKEKRINPPSSGG\TSSSPIKA IFPSPTSLVATTPSPVTSSATTTL TVSPVLPLTSAAVTNLSVTGTS DTTSNNTATVISTAPPASSAVTS PSLSPSPSASASTSEASSASE\TS TTQ\TTSTPLSSPLGTSQVMVTA SGLQTA/AQLLPFKGAAQLPAN\ ASLA\AMAAAAGLNPSLMAPS QFAAGGALLSLNPGTLSGALSP ALMSK\STLA\TIQTLASGGSLS K*TSLECKLGTLVICPMREEPPD
22080	52448	A	22208	3	114	
22081	52449	A	22209	1	505	NLGVDLLPGYQDPYSGRTLTK GEVGCFLSHYSIWEEVVARGLA RVLVFEDDVRFESNFRGRLERL MEDVEAEKLSW\YSYWTLAYA LRLAGARKLLASQPLRRMLPV DEFLPIMFDQHPNEQYKAHFWP RDLVAFSAQPLLAAPTHYAGD AEWLSDTETSSPWDDDSGR
22082	52450	A	22210	3	626	RAARAAPLLHLLLLLGPWLEA AGVAESPLPAEVLAILARNAEH SLPHYLGALERLDYPRARMAL WCATDHNVDNTTEMLQEWLA AEGDDYAAVVWRPEGEPRFYP DEEGPKHWTKERHQFLMELKQ EALTFARNWGADYI/LGATLGL WQDHSVNSLGGCSPGRAGACD VPSSKFADTDNILTNNQTLRLL MGQGLPVVAPMLDSQTNV

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22083	52451	A	22211	1	2004	MRAARAAPLLQLLLLLGPWLE AAGVAESPLPAVVLAILARNAE HSLPHYLGALERLDYPRARMA LCLQGPAQPQWDLWLAGFEEE QTGTSEVHWGPTWQGSTTLEA SGHRCATDHNVDNTTEMLQE WLAAVGDDYAAAVWRPEGEP RFYPDEEGPKHWTKERHQFLM ELKQEALTFARNWGADYILFA DTDNILTNNQTLRLLMGQGLPE VAPMLDSQTYYSNFWCGITPQ GYYRRTAEYFPTKNRQRRGCL RVPMVHSTFLASLR\AEGADQL AFYPPHPNYTWPFDDIIVFAYA CQAAGVSVHVCNEHRYGYMN VPVKSHQG\LEDERVNFIH\LILE ALVDGPRMQASAHVTRPS\KRP SKIGF\DEVFVISLG\RRPDRRER MLASLWEMEISGRVVDAVDG WMLQQQVPFRNLRP*DLLPGL/ YKDPYFGPHS*PRAEVGLLSSD HYSIW\EEVVSQGAWPR\VLVV *RNDVAPLRTNFQGGGLERL\M E\DVEGKRNLSWEKPPFRILPLG R\KQVEPLRRET\AVEGLPG\LV VAG*LPNW\TLA\YALRLAGGP ASLLALQPFAPHCCPVERISLPI HCFDQ\HPNEASTKAHFWPRD\ LVAFSAQ\PLLAAPTHYAG\DAE WILLSRRHHSPWDDDSGRLISW SGSQKTLRSPRLDLTGSSGHSL
22084	52452	A	22212	1	468	ELSHNAKAKVMVASHNEDT/V LFALRRMEELGLHPADHQVYF GQLLGMCDQI\SFPLGQAGYPIL TQIHLFSPHTCRAAGGEVRCLP ALPRVWALRCGPNLIPAWDSH WKLLGTLLELCAQGPHLCDPH VLGPRGLSTFCQGQPTQPEPLG EQWPGWG
22085	52453	A	22213	1	1893	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22086	52454	A	22214	390	2005	INRDVETACTYILRNTEDVMLE FVMREWKKSRKLLGQRLFNKL MKMTFYGHFVAGEDQESIQPL LRHYRAFGVSAILDYGVEEDLS PEEAEHKEMESCSSAAERDGSG TNKRDKQYQAHRAFGDRRNG VISARTYFYANEAKCDSHMETF LRCIEASGRVSDDGFIAIKLTAL GRPQFLLQFSEVLAKWRCFFHQ MAVEQGQAGLAAMDTKLEVA VLQESVAKLGIASRAEIEDWFT AETLGVSGTMDLLDWSSLIDSR TKLSKHF/V*VPNAQTGQLEPLL SRFTEEEELQMTRMLQRMDVL AKKATEMGVRLMVDAEQTYF QPAISRLTLEMQRKFNVEKPLIF NTYQCYLKDAHDNV\TLD\VDL SPREGWCFGAKPVRGAYLAQE RACAAEIGYEDPINPMYEATNT MYHRCLDYVLEELKHNAKAK VMVASHNEDTVRFALRRMEEL GLHPADHQVYFGQLLGMCDQI SFPLG\QAGYPVYKYVPYGPVM EVLPYLS\RRALE\NSSLMKGTH \RER\QLLWLELLRRLRTGNLFH
22087	52455	A	22215	3	303	
22088	52456	A	22216	798	2250	VPRAPQGML*GPRKDAGTPER RAGPPGGRGTADGGGCGALAG SGS/DDPRLCIWTFLVTDQLLLP TGPGRPRGSVAAAATGPGVGA LRAPARAQPRGAVDGRPLLPQ VLPHRRLEVSLGKSPKECVLW/ RHLLSESEKRPFVEEAERLRVQ HKKDHPDYKYQPRRRKSAKAG HSDSDSGAELGPHPGGGAVYK AEAGLGDGHHHGDHTGQTHGP PTPLTTPKTELQQAGAKPELKL EGRRPVDSGRQNIDFSNVDISEL SSEVMGTMDAFDVHEFDQYLP LGGPAPPEPGQAYGGAYFHAG ASPVWAHKSAPSASASPTETGP PRPHIKTEQPSPGHYGDQPRGSP DYGSCSGQSSATPAAPAGPFAG SQGDYGDLQASSYYGAYPGYA PGLYQYPCFHSPRRPYASPLLN GLALPPAHSPTSHWDQPRRNGS TAQGPKEGVAGALQGAVRSKA GLGAEKPLHSRPHSLDNGCTGC PGSGVSVRRLG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22089	52457	A	22217	299	1631	LLEPHCGGKCFKRHWFPCSCEA SC\PSAAPQRW*HTG/SPEVPAA PGAQGREPSM/RDGEGAVRGGS CMEAGPMGLQCVDKKHQGVH N/RGEARVFLQSQVGAILPRPW PNPAPSEP/VQSPLASSTGP*VFP SRPGQQASGPA/RRHPGAEPGQ RGDAVQLLPRPQTSPHGPQDA ALSSAPHPWRQL/MASPGLQEA PLHPFCGHRSPCPVPWQLSPTD PIQSRPPARGWAPANQGRPSHP RCRGGGGAFCGHGF/SYTQPLT FRLASMVLSIHPKPPKETLRFRP NMVVAAEPGVPAMSQRRPRGC TRFSHTDKAPLDTCTDMNAYT CARRHSSTYSDHITLQGAFACT HTWAQSCTCQPPPTPAAKCLDR GQSSGMLHAGCVGWGGGTHV RVDLSSQLNRRVRPHLCMLRC WSSCHRASVSCTHPSLHTTGPV LISARTGADHTWYTAGTY
22090	52458	A	22218	383	762	RHQGNQKRKELSLK/CQKSRQE SPRAEENPKWREGKKETSESSV QKAGRAAAAQAGAAASRVPG LSGSNLAPCNKGRLSAREDVSN SKLKILSSGRKHTEHVIMLKAW GLGRQSLRCRLFDLIPSHKV
22091	52459	A	22219	325	945	QPSPLAPKADLSAREGRFQLKV RCRLQQYQQQR\RKF\AAAFLA FHFSLLGSCGILAEAG\KKEKPE KK\VKKSDCGRIGSWSVCVAPP SGDCGLGHHGRATRT*\AECKQ \TMKTQRCKIPCNWEGRQFGRG SAKLPSFQAWGECDLDT\ALKT\ KTGSLKRALHKSPNAQKTVTIS/ KSPCGKLTKPQNLQAES\KKKK KEGKKPEGRLRD

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22092	52460	A	22220	1	1908	MKYIQDFQREKQEFERNLARFR EDHPDLIQNAKKSDIPEKPKTPQ QLWYTHEKKVYLKVRPDATTK EVKDSLGKQWSQLSDKKRLK WIHKALEQRKEYEEIMRDYIQK HPELNISEEGITKSTLTKAERQL KDKFDGRPTKPPPNSYSLYCAE LMANMKDVPSTERMVLCSQQ WKLLSQKEKDAYHKKCDQKK KDYEVELLRFLESLPEEEQQRV LGEEKMLNINKKQATSPASKKP AQEGGKGGSEKPKRPVSAMFIF SEEKRRQLQEERPELSESELTRL LARMWNDLSEKKKAKYKARE AALKAQSERKPGGEREERGKLP ESPKRAEEIWQQSVIGDYLARF KNDRVKALKAMEMTWNNME KKEKLMWIKKAAEDQKRYERE LSEMRAPPAATNSSKKMKFQG EPKKPPMNGYQKFSQELLSNGE LNHLPLKERMVEIGSRWQRISQ SQKEHYKKLAEEQQKQYKVHL DLWVKSLSPQDRAAYKEYISN KRKSMTKLRGPNPKSSRTTLQS KSESEEDDEEDEDDEDEDEEE DDENGDSSEDGGDSSESSSEDE SEDGD/EGGADRAQWEGRGVL PGGPPGDSTSFLTPQNEEDDED EDDDEDDDEDEDNESEGSSSSS SSSGDSSDSDSN
22093	52461	A	22221	129	2365	
22094	52462	A	22222	5	2730	PSLRFAISGFVWRLAAPASAAA ELRLDCSARRAPRCPRPALPSTR SAEGAVLCAFRREEQQAAATA AAAAAATAAAAAAPAPPPRP EEEPLPPREGAAAVPGRAGEGA ATQSQGGSRWSGKPGGRAAPA RPRRWLDSWRMNGEADCPTDL EMAAPKGQDRWSQEDMLTLLE CMKNNLPSNDSSKFKTTESHM DWEKVAFKDFSGDMCKLKWV EISNEVRKFRTLTELILDAQ*HF KNPYKG\KKLKKHPDFPK
22095	52463	A	22223	1	446	RPSPPTSSM/PGLWGYSRPCSSG VPASALQA*SPAFSPASQRPPTT SWWEVP*EEGRA\PVWEGRIRA VGPAPAS*PSDLPAWSCRSWRE TRG\SPAEDAMLLRAVEPLEGC QRPLLDSEPP/SPARTSAPAASA SPPAPGGPPCLARPLPR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22096	52464	A	22224	582	1175	THTHVPAGTHPHTQTTSHSHLI GRALTVPESPKCPCLLPSAC*PR PGRAQPAGPAWSKKEASNPGS E/PPQHSL*RRMAPPE\PVPARA VHTCRCLSSAPPGARLPLDPER RAPQSPRSPPPSAQPPPPPPPPP PPPGRRGPSQQSWRPSPPPRTR SRSPRRSRVRGPRAPALAAPPPP GARPGPCAAACGSPTGCS
22097	52465	A	22225	609	5241	GPQTTWCGRPTMCQHCGPAVS SWKQPSHDPCCRGGENRRQPG TPARATQGRLRRRPEGARVPSA RRGRPRARWRDKERNNTCVA ML*QVTNSTAN\APQNNPEVDS IMAELKVEAPASVDWQKRCLT LETQLFRFRLQASKIRELLADK GHGTYISPFSLAKQMQELEQRL LEAEQRAENAETQVGVMEEKV KLSNLKNVDSEGSLHRKYQELL KAIKGKDELISQLEAQLEKQKQ MRAEEAKTVQEKAAKIKEW
22098	52466	A	22226	2	205	
22099	52467	A	22227	1	6186	
22100	52468	A	22228	96	1584	DLGSGITASPPRPEPEHPVFPPA PHTPSKMGKEKTHINIVV\IGHV \DSGKSTTTGHLIYKCGGIDKRT IEKFEKEAAEMGKGSFKYAWV LDKLKAEREPG\ITIDISLW\KFE\ TTKYYITIID\APGHRDFIKNMIT G\TSQADCAVLIVAAGVGEFEA GISKNGQTREHALLAYTLGVK QLIVGVNKMDSTEPAYSEKRY DEIVKEVSAYIKKIGYNPATVPF VPISGWHGANMLEPSPNMPWF KGWKVERKEGNASGVSLLEA\ LDTILPPTRPTDKPLRLPLQD\V YKI\GGIGTVPVGRVETGILRPG MVVTFAPVNITTEVKSVEMHH EALSEALPGDNVGFNVKNVSV KDIRRGNVCGDSKSDPPQEAAQ FTSQVIILNHPGQISAGYSPVIDC HTAHIACKFAELKEKIDRRSTK KLEDNPKSLKSGDAAIVEMVPG KPMCVESFS\Q*PVIG/RTPVRD MRQTAA\VGVIKNVQKKSVGA GKVTKSAQKAQKAGK
22101	52469	A	22229	1	1023	
22102	52470	A	22230	1	396	
22103	52471	A	22231	2	1259	
22104	52472	A	22232	1	2514	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22105	52473	A	22233	3	2027	EESDCLTEYEEDAGPDCSRDEG GSPEGASPSTASEMDVSLHFVL WGCLHVYQRMIDKAEDVCLFV AQPGELVGQLAVLTGEPLIFTL RAQRDCTFLRISKSDFYEYDSP KLECGWHSEDPNPWTSPSTGL NPLFLELCRHMVFQRLGQGDY VFRPGQPDASIYVVQDGLLELC LPGPDGKECVVKEVVPGDSVN SLLSILDVITGHQHPQRTVSARA ARDSTVLRLPVEAFSAVFTKSA RTITGCVWRYVRASASYCPYLP PLCDPKDGHLLVDGCYVNNVP GSLWRYVRASMT\RRATCPRCA TPRTGTYSWMAATSTICQASGR PHHPHTQAPPAPHTRTRRTSPA AWVPKRSSPLTWGARMRRTSA PTGTACPAGGCCGSG*IPGLTR* RFQTWLKSSPAWPTCPVCGS*R LSSPAPTASTCARPSTASRPWTL GSSTRSILRTTRRMSTAVTTTAT PAPIITPST*GTNGTGCAPQIRPA EPSPGARTSWNPSLSATFAPEEF VASP*LDVPICRMGQCCSLPGG ATLP*GPCGPQCMPGNVVPPER TAARYRQTTAYQTPACPTPPRG QRPT/CVPTVSSLQAGLQGGPRS DFDMAYERGRISVSLQEEASGG SLAAPAREPREQPAGACEYSYC EDESATGGCPFGPYQGRQTSSIF EAAKQELAKLMRIE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22106	52474	A	22234	281	1832	NDSGLPDRPSSWNQPMEAPLQ TGMVLGVMIGAGVAVVVTAV LILLVVRRLRVPKTPAPDGPRY RFRKRDKVLFYGRKIMRKVSQS TSSLVDTSVSATSRPRMRKKLK MLNIAKKILRIQKETPTLQRKEP PPAVLEADLTEGDLANSHLPSE VLYMLKNVRVLG\HFEKPLFLE LCRHMVFQRLG/QGDYVFRPG QPDASIYVVQDGLLELCLPGPD GKECVVKEVVPGDSVNSLLSIL DVITGHQHPQRTVSARAARDST VLRLPVEAFSAVFTKYPESLVR VVQPGPPSGPAPYPAPSYGHAP RALQIIMVRLQRVTFLALHNYL GLTNELFSHEIQPLRLFPSPGLPT RTSPVRGSKRMVSTSATDEPRE TPGRPPDPTGAPLPGPTGLQGG PRSDFDMAYERGRISVSLQEEA SGGSLAAPAREPREQPAGACEY SYCEDESATGGCPFGPYQGRQT SSIFEAAKQELAKLMRIEDPSLL NSRVLLHHAKAGTIIARQGDQ MEEVKVPAFAVIVD
22107	52475	A	22235	50	4287	PGRKSPGAEDRALWGPACRLL TDSGLPDRPSSWNQPMEAPLQT GMVLGVMIGAGVAVVVTAVLI LLVVRRLRVPKTPAPDGPRYRF RKRDKVLFYGRKIMRKVSQSTS SLVDTSVSATSRPRMRKKLKM LNIAKKILRIQKETPTLQRKEPP PAVLEADLTEGDLANSHLPSEV LYMLKNVRVLGHFEKPLFLELC RHMVFQRLGQGDYVFRPGQPD A\SIYVVQDGLLELCLPGPDGKE CVVKEVVPGD\SVNS
22108	52476	A	22236	283	403	TCLSLVSGCGHCEKMNSEENW *IPIQWASSNPGRRRKNIR
22109	52477	A	22237	33	222	NGPM\CFVKQLEIPQYGYRNNV PTTTPRSNLAKELEKYSKTSFEY TINDNHTYGGLGCMRPRLV
22110	52478	B	22238	1	1860	
22111	52479	A	22239	303	672	GITACVFFSMAEGRTRAERSCD SK*AIGAPAEE*GGASPGKSPEL WQGAGYSPLGACGHKARLWIP WRRSWSGEKGARGCRGTGKK LGHQGWRWETPGRPGGAGPA GFPDPVVMGCEKEASRV
22112	52480	A	22240	1	1377	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22113	52481	A	22241	1	2232	MQDTEKDDNNNDEYDNYDEL VAKSLLNLGKIAEDAAYRARTE SEMNSNTSNSLEDDSDKNENLG RKSELSLDLDSDVVRETVDSLK LLAQGHGVVLSENMNDRNYA DSMSQQDSRNMNYVMLGKPM NNGLMEKMVEESDEEVCLSSL ECLRNQCFDLARKLSETNPQER NPQQNMNIRQHVRPEEDFPGRT PDRNYSDMLNLMRLEEQLSPRS RVFASCAKEDGCHERDDDTTS VNSDRSEEVFDMTKGNLTLLE KAIALETERAKAMREKMAMEA GRRDNMRSYEDQSPRQLPGED RKPKSSDSHVKKPYYGKDPSRT EKKESKCPTPGCDGTGHVTGL YPHHRSLSGCPHKDRVPPEILA MHESVLKCPTPGCTGRGHVNS NRNSHRRDIQVFNLQKQEMIDR LESLSGCPIAAAEKLAKAQEKH QSCDVSKSSQASDRVLRPMCFV KQLEIPQYGYRNNVPTTTPRSN LAKELEKYSKTSFEYNSYDNHT YGKRAIAPKVQTRDISPKGYDD ANGYCKDPSPSSSSTSSYAPSSS SNLSCGGGSSASSTCSKSSFDYT HDMEAAHMAATAILNLSTRCR EMPQNLSTKPQDLCATRNPDM EVDENGTLDLSMNKQRPRDSC CPILTPLEPMSPQQQAVMNNRC FQLGEGDCWDLPVDYTKMKPR \RIDEDESKDITPEDLDPFQEALE
22114	52482	A	22242	727	4372	LWACVLPGVTLPPFLGEKTSCK MEVDTEEKRHRTRSKGVRVPV EPAIQELFSCPTPGCDGSGHVSG KYARHRSVYGCPLAKKRKTQD KQPQEPAPKRKPFAVKADSSSV DECDDSDGTEDMDEKEEDEGE EYSEDNDEPGDEDEEDEEGDRE EEEEIEEEDEDDDEDGEDVEDE EEEEEEEEEEEEEEENEDHQMN CHNTRIMQDTD\LDDNNNDEY DNYDELVAKSLLNLGKIAEDA AYRARTESEMNSNTSNS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22115	52483	A	22243	34	1558	PASEEFNSLHGRTPRRDLECRN QQSTTEERRRHDCVQQASEHN EGKWDFAFSAQSQPKP*KPFDV PC*DSRPACP*EHTAGTSGSTSS ETCFFQSSEWPYGELGAYNIFT GPKSTLSSLVTGVSNSSSLS*LP SPKNTITNWFHTRDHSSYSEIHS KACANP*APSQPSR*ASW\IATG SFRRAGLAT*PCCTGSKLLPAW VLANHRWDRTRDGIQKQGNSE *PSSPGTRAFEGNSSSPAPAASIT SMLSPSFTPTSVIRKMYESKEKS KEEPASGKAALGDSKEDTQKA SEENLLSSSSVPSADRDYFSHY KFQTVRHYRGSSCS\PHLSQGQP FTPKEQDYSDLKGNWGRKNTH FGHSPVSLQHFFFRPVPPSSPLSP MVPNG*GLLTKLHPGFGTEDA GPGSTSTASSKFAPNWCASSWD GLESFTGNIWPHPGSALLPFN*S LVHPLLNPRPGNTSASGNGATA ANSAQ\SCILQALVSHGSSCSAF QDNPSETCPAGQACPHALP
22116	52484	A	22244	1502	2657	EGKVPLAFIVLTSLLNAVMSPSF FSCRLLVTALKVSSRCSAMKGV EFFTCWSTFKPFRPASTSSTEST TPECELSLSFSLFAERLERRGFK STLAFCSISKISTLFSAWSSNGIG AK*FPEFCPGDRMACSRPASLSS SSCG/S*PKTAGSAS*SARVREPP TEPTGRD*PFSQ\TSSIIEAKHGT LSRLKNSLKSKSPGDCSGKTAS LGTS*SAAGSCARMTSTSSSSAT PPLHSTIPSFTEAVRRLVLFLPL* SSSSILSSKPVSSMVSD*LVGPA ENHSGSSSV*ESFLLRSPKTRLL SPNSLLKRLSLKSLSRSLSLKSR RSLSL\SGDPSQRSGQRLSSHCQ SYVHQADEAHHYLSLMDFLSA GS*QRLSRGSPLQSSVSEG
22117	52485	A	22245	324	391	
22118	52486	A	22246	42	274	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22119	52487	A	22247	1	835	MCAGNLCSWEERWAVDEKEA TDKKPHVGGFGQGAPAPAAPA AAMSGRSVRAVTRSRF*DDIKK VMAAIEKVRKWEKKWVTVGD TSLRIFKWVPVTDSKEKEKSKS NSSAAREPNGFPSDASANSSLL LEFQDENS\NQS\SVSDVYQLKV DSSTNSSPKPPKQSESLSPAHTS DFRTD\DSQPPTLGQGDPGRSPP LP\SSEVADEPPTLTKGRTSFHL ETQVVEE\EEDSGAPPLKRFCV\ DQPTVPQTGSEKLAPSRPSAFW ALPLFIAFWFWPRRVCWG
22120	52488	A	22248	3	244	
22121	52489	B	22249	271	711	
22122	52490	B	22250	73	200	
22123	52491	A	22251	885	975	GSTWWPAD*AQL*LHLPTRCM AECWEIPA
22124	52492	A	22252	102	909	PGGRHGRQNDFAAPGGRLEARI HGTVSAPLYHRVLCRLLGSRPA SAAGPAARGGDLAPGEHSFCE DGNYARVESVDRSAINRAMQN PRKSTASVCWTFTASDLPAQGV \PRTSSTRTLREDPFPPSAEKWL RAVLHHFVNEKLQQIFIELTLKP SRRSMSGRHPLDSNPVLQQQGR CDLIENKLSPPGIMSVLDDVCPP CTPRAGEQTRHCCRTAGGCGD PRAFQQLERRFVIHHYAGKTHR PLPGLTPTGNSTNARNIVMDTQ QRTGNN
22125	52493	A	22253	48	112	
22126	52494	A	22254	1243	1615	YSPSSWFSNLYQPSTGALSSSET PKDMAPMKSLREVRSQSHTSTL SRRSTSPGFRLNTKVSFHTGFSV AFTVRVFCFVRFRGSGMSFSFT* GSERPLGSIGIRLRASPTVTWISS AVGARISSC

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22127	52495	A	22255	468	1431	SVSTTRSFSVDSSAKTAAMPVT VTRTTHHNHPDVIFGAWGPP*S WGPLWALTQPLGLL\RLLQL\V STCVAFSLVASVGAWTGSMGN WSMFTWCFCFSVTLIILIVELCG APGPFPPWSWR\NFPI\TFACYA ALFCLSASIIYPTTYVQFLSHGR\ SRDHAIAATFFSCIACGC\YATE VAWTRARPGEITGYMATVPGL LKVLETFVACIIFAFISDPNLYQ H\QPALEWCVAVYAICFILAAIA ILLNLGECTNVLPIPFPSFLSALA \FCLSSSMPPPLFSGPSTSSMRSM AASLGAREM*AAAAGMPTTW VPGTADWLRPS
22128	52496	A	22256	98	414	CTRVSVAEKTSVCLFGLYWESL SISSSCESSAKWPFSTIRSASSTT RHLSCRRFLK**CFSLINSHSRP GVATTISGRRFSILCCFCVDIPPT KIAVLIPVNLAT
22129	52497	A	22257	2	224	
22130	52498	A	22258	2	115	
22131	52499	A	22259	2	118	
22132	52500	A	22260	472	648	GPGGRSFTVWWNW*RRMAQC P\PAEGVQRPECLGPHRAVPAP AHVGLHQEPSRLLPALH
22133	52501	A	22261	540	1893	GRCATPRPRWRGHQCDPPPGD VCVAWREMQLRNKKRRR\DLG NLIK\RFLTAPNSLPD/AVVLTTE EAVIFWCNVLAQQIFGL/PLEM MNEQPLEGAVREKALHTMREQ TQRMEGLVKQL/LTLSKIEAAPT HLLNEKVDVPM/MLRVVEREA QTLVYNAVNHTPEGTHITVRW QRVPHGAEFSVEE*SEGWPVPV PKPHRAVVGANAHISFCPPQEL SKRFTAIRKTKGDGNCFYRALG YSYLESLLPDAFQPLLPPQAWV SPGESQGAGIRDPLWPVPVPKP HRAVVGANAHISFCPPQELSKR FTAIRKTKGDGNCFYRALGYSY LESLLPDAFQPLLPPQAWVSPG ESQGAGTRDPLWLWLFRLWLL RLLCLLLLLLGETAQSRLALTW GRHKQGRLARLSGILGFLALRK QWLGQQVAQLLLQNLHLLLLR WAGLGVIVFQVSNQPAWERTG
22134	52502	A	22262	1	1772	
22135	52503	A	22263	107	294	LHLLSFGYLTHQLLCLHLKWDS HTLHHSHHTIAR*AGCSEATWS PPRRLRAPRSRALCSGFR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22136	52504	A	22264	1	474	
22137	52505	A	22265	1	148	VKYHEFTCSFKKQITVPEDARL LK*DVRGRPSRLFLADPPPPHT VNREY
22138	52506	A	22266	509	2755	YQSQSFDEDEMNQVTDWVDPS FDDFLECSGVSTIT\ATSLGVNN SSHRRKNGPSTL\ESSRFPARK\R GNLSSLEQIYGLENSKEYLSENE PWVDKYKP\ETQHELAVHKKKI E\EVETWLKAQVLGRQPKQGG SILLITGPPGCGKTTTLKILSKEH GIQVQEWINPVLPDFQKDDFKG MFNTESSFHMFPYQSQIAVFKE FLLRATKYNKLQMLGDDLRTD KKIILVEDLPNQFYRDSHTLHE VLRKYVRIGRCPLIFIISDSLSGD NNQRLLVPKEIQEEWSISNIRFN PWAPTIMMKFLNRIVTIEANKN GGKITVPDKTSLELLCQGCSGDI RSAINSLQFSSSKGENNLRPRKK GMSLKSDAVLSKSKRRKKPDR VFENQEVQAIGGKDVSLFLFRA LGKILYCKRASLTELDSPRLPSH LSEYERDTLLVEPEEVVEMSHM PGDLFNLYLHQNYIDFFMEIDDI VRASEFLSFADILSGDWNTRSL LREYSTSIATRGVMHSNKARGY AHCQGGGSSFRPLHKPQWFLIN KKYRENCLAAKALFPDFCLPAL CRQTQLLPYLALLTIPMRKSSFR FSFYSKDIGEGLPSGRRTLWGRI GKWEGPGLDRGTWDD*TPDSG DEA\QLNG\GHSAEESLGEPTQA TVPETWSLPLSQNSASELPASQP QPFSAQGDMEENIII\EDYESDG DIEASLLIRLLLHSFHFCFHFSGT
22139	52507	A	22267	2	161	
22140	52508	A	22268	1	599	VTRLFFQPGYGTLQPQRLLMPK KNR\IAIYE\LLFK\EGVMVPKK\ DVPIPKHPELA\DRNVPNLHVM KPMQ\SLKS\RGYVK\EQFAW\R HFYWYLTK*GYQGVSISSRDYL \HLPP\EIVPCHPYGRSPSRRLAR PSG*KVLEG*ANLRGLHKNGEA DKRLPTRRECLCHPGA\DKKAE AG/ALGSSNPNFQFRGGFGRGR GQ\PPQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22141	52509	A	22269	1	345	KHPELADKNVPNLHVMKAMQ SLKSRGYVKE\DYLHLPPEIVPA TLRRSRPETG/RPRPKGLEGERP ARLTRGEADRDTYRRSAVPPG ADKKAEAGAGSATEFQFRGGF GRGRGQPPQ
22142	52510	A	22270	2	161	
22143	52511	A	22271	2	641	RRPQHRACSFFFSPGTGPCSRRR CLMPKKNR\IAIYE\LLFKEG\VM VAKKDVHMP\KHPE\LAD\KNG APTFHVMKGHAGLSKSPRATV KGTSFAWGDIFYW\YL\TN*GY QGVSISSRDYLSSCPREICCLAT ATARSPSKRLGKAFGLKRSWE GLRRPGEDFTRGGKFDRGYLT GRIAVATLVADKKAEAG/ALGS SNPNFQFRGGFGRGRGQ\PPQ
22144	52512	A	22272	1	1693	MFNSVPVQNEDGSFNFEGVKA EFRPGTQTQEYIKGMEDSASEV TVNREVTTDNPYTISVTNKTLS AIRIKMFMPR\AYELKVTVIKM AFELSTRCSKRLM/DGSFETVLT DVIEGKTMSGYDRSRRVNLPNF NNQVIFRVVRKTPDSNDSNVV DAIQVRSYAEVIDAKFRYPLTG LLFVEFDSKMFPNQLPTISIRKR WKIVNVPSNYDPESRTYNGNW DGTFKKAWTNNPAWVLYDLM INQRYGLDQKELGISVDKWAL YEAAQYCDQMV\LTAKAARNL ATFVT/CIIQSQTDAPREPAYIFT NDNVVNGDFSYT\SQARRACTR RAT*CLMMSKTCINRTLSQYSI/ V/EGHSTVR\NNVTSITAIG\AHV EA/KANRRGRWILKTNLRSTTV NFATGLEGMIPTIGDVVAISDNF WSSNLTMNLSGRLLEVSGSQIF LPFRVDARAGDFIIVNKPDGKP VKRTISSVSADGKTIEINIGFGFP VKPNTVFAIDRTDLALQQYVVT KIDKGDDDEEFT\SKSRRWSTIL ISTMKLITGLTSTTDRQASLSQI R/CPKPENVK\CPQSRESSRG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22145	52513	A	22273	1	1843	MEDNLISINKIKILLSVSDGEIDE TFSLKQLMFNSVPVQNEDGSFN FEGVKAEFRPGTQTQEYIKGME DSSSEVTVNREVTTDNPYTISVT NKTLSAIRIKMFMPR\AYELKVT VIKMAFELSTRCSKRLM/DGSFE TVLTDVIEGKTMSGYDRSRRV NLPNFNNQVIFRVVRKTPDSND SNVVDAIQVRSYAEVIDAKFRY PLTVLLFVEFDSKMFPNQLPTIS IRKRWKIVNVPSNYDPESRTYN GNWDGTFKKAWTNNPAWVLY DLMINQRYGLDQKELGISVDK WALYEAAQYCDQMV\LTAKA ARNLATFVT/CIIQSQTDAYKVV RDICSIFRGMSFWNGPREPAYIF TNDNVVNGDFSYT\SQARRACT RRAT*CLMMSKTCINRTLSQYS I/V/EGHSTVR\NNVTSITAIG\AH VEA/KANRRGRWILKTNLRSTT VNFATGLEGMIPTIGDVVAISD NFWSSNLTMNLSGRLLEVSGSQ IFLPFRVDARAGDFIIVNKPDGK PVKRTISSVSADGKTIEINIGFGF PVKPNTVFAIDRTDLALQQYVV TKIDKGDDDEEFT\SKSRRWSTI LISTMKLITGLTSTTDRQASLSQ IR/CPKPENVK\CPQSRESSRG
22146	52514	B	22274	1	1452	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22147	52515	A	22275	1	1902	MIQKVISGSKGGSQKPHNPVEM EDNLISFNKIKILLAVSDGEIDET FSLKQLMFNSVPVQNEDGSFNF EGVKAEFRPGTQTQEYIKGME DSSSEVTVNREVTTDNPYTISVT NKTLSAIRIKMFMPR\AYELKVT VIKMAFELSTRCSKRLM/DGSFE TVLTDVIEGKTMSGYDRSRRV NLPNFNNQVIFRVVRKTPDSND SNVVDAIQVRSYAEVIDAKFRY PLTGLLFVEFDSKMFPNQLPTIS IRKRWKNVNAPSNYDPESRTY NGNWDGTFKKAWTNNPAWVL YDLMINQRYGLDQKELGFSVD KWALYEAAQYCDQMV\LTAK AARNLATFVT/CIIQSQTDAPRE PAYIFTNDNVVNGDFSYT\SQA RRACTRRAT*CLMMSKTCINRT LSQYSI/V/EGHSTVR\NNVTSIT AIG\AHVEA/KANRRGRWILKT NLRSTTVNFATGLEGMIPTIGD VVAISDNFWSSNLTMNLSGRLL EVSGSQIFLPFRVDARAGDFIIV NKPDGKPVKRTISSVSADGKTI EINIGFGFPVKPNTVFAIDRTDL ALQQYVVTKIDKGDDDEEFT\S KSRRWSTILISTMKLITGLTSTT DRQASEVKPVNFTSSRHQAQPE VGLIPPPLWPQGKGIIAQTSKSS
22148	52516	A	22276	1	675	
22149	52517	A	22277	155	700	SGVLVGHALTARQPSSGRRLV VDHSANRRGRWILKTNLCSTT VNFATGLEGMIPTIGD/GDFIIVN KPDGKPVKRTISSVSADGKTIEI NIGFGFPVKPNTVFAIDRTDLAL QQYVVTKIDKGDDDEEFT\SKS RRWSTILISTMKLITGLTSTTDR QASLSQIR/CPKPENVK\CPQSRE SSRG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22150	52518	A	22278	1	1871	MEDNLISINKIKILLAVSDGEIDE TFSLKQLMFNSVPVQNEDGSFN FEGVKAEFRPGTQTQEYIKGME DSSSEVTVNREVTTDNPYTISVT NKTLSAIRIKMFMPR\AYELKVT VIKMAFELSTRCSKRLM/DGSFE TVLTDVIEGKTMSGYDRSRRV NLPNFNNQVIFRVVRKTPDSND SNVVDAIQVRSYAEVIDAKFRY PLTGLLFVEFDSKMFPNQLPTIS\ IRKRWKIVNVPSNYDPESRTYN GNWDGTFKKAWTNNPAWVLY DLMINQRYGLDQKELGISVDK WALYEAAQYCDQMV\LTAKA ARNLATFVT/CIIQSQTDAYKVV \RDICSIFRGMSFWNGESISVIID RPREPAYIFTNDNVVNGDFSYT\ SQARRACTRRAT*CLMMSKTCI NRTLSQYSI/V/EGHSTVR\NNVT SITAIG\AHVEARPTDCGRWILK TNLRSTTVNFATGLEGMIPTIGD VVAISDNFWSSNLTMNLSGRLQ EVSGSQIFLPFRVDARAGDFNIV NKPDAKPVKRTISSVSADGKTI EINIGFGFPVKPNTVFAIDRTDL ALQQYVVTKIDKGDDDEEFT\S KSRRWSTILISTMKLITGLTSTT DRQASLSQIR/CPKPENVK\CPQS RESSRG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22151	52519	A	22279	3307	5305	CRSSQNTQETSPDRALLVNLRP SQGPLLALWVPAEGVGGKGHC LPPRSFFRMDNQLVPAVSDGEI DETFSLKQLMFNSVPVQNEDGS FNFEGVKAEFRPGTQTQEYIKG MEDSSSEVTVNREVTTDNPYTI SVTNKTLSAIRIKMFMPR\AYEL KVTVIKMAFELSTRCSKRLM/D GSFETVLTDVIEGKTMSGYDRS RRVNLPNFNNQVIFRVVRKTPD SNDSNVVDAIQVRSYAEVIDAK FRYPLTGLLFVEFDSKMFPNQL PTISIRKRWKIVNVPSNYDPESR TYNGNWDGTFKKAWTNNPAW VLYDLMINQRYGLDQKELGISV DKWALYEAAQYCDQMV\LTA KAARNLATFVT/CIIQSQTDAYK VVRDICSIFRGMSFWNGESISVII DRPREPAYIFTNDNVVNGDFSY T\SQARRACTRRAT*CLMMSKT CINRTLSQYSI/V/EGHSTVR\NN VTSITAIG\AHVEA/KANRRGRW ILKTNLRSTTVNFATGLEGMIPT IGDVVAISDNFWSSNLTMNLSG RLLEVSGSQIFLPFRVDARAGD FIIVNKPDGKPVKRTISSVSADG KTIEINIGFGFPVKPNTVFAIDRT DLALQQYVVTKIDKGDDDEEF T\SKSRRWSTILISTMKLITGLTS TTDRQASLSQIR/CPKPENVK\CP QSRESSRG
22152	52520	A	22280	3	412	PAAVA*VKTEPETPGPSCLSQE GQTA\VKTEESSELGNYVIKIDH LETIQQLLTAVVKKIPLITAK\W QRAMTMRKVLQEILEKNPRFH HLTPLKTKHIAHWCRCHGYTPP DPESLRNDGDSIEDVLTQIDSEP
22153	52521	A	22281	2	513	IFACWGKQAWPACCNSLRGQA VKGNQLLPVSLVKRKTTLAPNT QTASPRALADSLMQLARQVSR LE/QRAKREPENEEEVDILSLSE PVKINIKKEQEEKQEEVKFYLPP TPGSEFIGDVTQKRLEEVDSTFG DDLVQGFSGGISRRYGEKPGVQ DLEVEPDSVTEMLQFYD

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22154	52522	A	22282	1	1197	MAWPCISRLCCLARRWNQLDR SDVAVPLTLHGYSDLDSEEPGT GGAASRRGQPPAGARDSGRDV PLTQYQRDFGLWTTPAGPKDPP PGRGPGAGGRRGKSSAQSSAPP APGARGVYVLPIGDADAAAAV TTSYRYGLGRDRNESPPCGGRT RRPGARGMGWAAERRRLEPGS HATSELPAASEVTPVWSVGTA GGAFAAPCPETVLEHPRAGSAP LPSQPPSWGQPSEWPAFSRVGT GLPLTPTAGPSRARGARRPCPP ALPGHCLLDRTYTGLQTLGAET LLAVVNSAAMNVGVQVVDVE LHRHSLGEDCIYPQSSESDISDA PPSLPLTIPAPVKASSPIKQSHEP VPDTSVEKGS\PGSCPFHL*GPL SHLGSSPGFLLWRPPGLLSSVA
22155	52523	A	22283	131	677	PSSLS/CDIFLRSPISTPSPSPLPRT PTSTPVHVKQGTAGSVINNPYV IMDKQPGQVIGATTPSTGSPTN KISTASQISQGTGSPVPKIHGSSF VTSTVKVIIKQEPGEAPHVPAT GAASQSPLPQYVTVKGGHMIA VSPQKQVITPGEGIAQSAKVQP SKVL/GQIG*CLPTLARADLLYS
22156	52524	A	22284	3	5128	LLKIHSSQSSPQQAVLTIPSQLK PLSVNTSGGVQTILMPVNKVVQ SFSTSKPPAILPVAAPTPVVPSS APAAVAKGEDASCFSAKSVEQ YYGWNIGKRRAAEWQRAMTM RKVLQEILEKNPRFHHLTPLKT KHIAHWCRCHGYTPPDPESLRN DGDSIEDVLTQIDSEPDHGSLG DGKSSSVGPTAVVTLLACHLEC PSSFSSADNLCRKLEDLQQFQK REPENEEEVDILSLSEPVKINIKK EQEEKQEEVKFY
22157	52525	A	22285	112	651	GGLCTMARTKADWPANRTGG KAP\RKQLAYKKPASQECGPLT GGVKKPHRYR\PGTVGGSVKFR R\YQKST\ELLIRKLPFQ/RRLVR EIAQGL*NKILRFQSAAIG\ALQE GKWRPNLVWPFLKDTNLVC*S MAKRVTIIAKKTFQLAPPHTVE NRALRIHSWMGKHFISQKKKK NFSSSCYW
22158	52526	A	22286	1	339	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22159	52527	A	22287	2	1369	EPAPPARRSLSAAAAASGTTVD TASHSLVFSQQ\LNMQREIGFRV NCTVAM*DVYFKAHRAVLAAF SNYFKMIFIHQTSECIKIQPTDIQ PDIFSYLLHIMYTGKGPKQIVD HSRLEEGIRFLHADYLSHIATE MNQVFSPETVQSSNLYGIQISTT QKTVVKQGLEVKEAPSSNSGN RAAVQGDLPQLQLSLAIGLDDG TADQQRACPATQALEEHQKPP VSIKQERCDPESVISQSHPSPSSE VTGPTFTENSVKIHLCHYCGER FDSRSNLRQHLHTHVSGSLPFG VPASILESNDLGEVHPLNENSE ALECRRLSSFIVKENEQQPDHT NRGTTEPLQISQVSLISKDTEPV ELNCNFSFSRKRKMSCTICGHK FPRKSQLLEHMYTHKGKSYRY NRCQRFGNALAQRFQPYCDSW SDVSLKSSRLSQEHLDLPCALES ELTQENVDTILVE
22160	52528	A	22288	363	947	STARRGKSRSRPAVALQRQPSA ASRSPSSSRRRRGVSKEVSVPLA RTKQTARKSTN\GK\APRKQLA YKKPARKSA\PSTGGVKKPHRY RPGYCGRSVKFRR\YQKSH*DF* FRKLPFQAVWVRENLLKDF*K QILRF\QSRSYRVALQGGQVEA LSGVGLF*KTTNLLC*SMPKRV NNYCQKDIPAKHARIPWRTVL
22161	52529	A	22289	1	92	
22162	52530	C	22290	10	198	
22163	52531	B	22291	74	205	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22164	52532	A	22292	2	1914	RGHCEPSRAAPSRADRHPASAL ARDPGRRRGPAGQAAPQPMEP ENIVANTVLLKAREGGGGNRK GKSKKWRQMLQFPHISQCEEL RLSLERDYHSLCERQPIGRL\LF* EFCATRPELSRCIAFQDGMAEY EATPDEKRKACGRRLMQNFL\S HTGPDLIPEVP\RQLVTNCTQRL EQGPCKELSQELTRVTHEYLSV APFADYLDSIYFNRFL\QGKGLE REAI\TKNTLRQYRVLGKGGFG EVCACQVRATGKMYACKKLE KKRIKKRKGEA\MSLNEKQILE KVN\SRFVVSLAYG\YETKD\AL CLVLTLMNGGDLKFHIYHMGQ AGFPEARAVFYAAEICCGL\EDL HRERIVYRDLKPENILLDDHGHI RISDLG\LAVHVPEGQTIKGRVG \TVGYMAPECLKNERYTFSPDW WALGCLLYEMIAGQSPFQQRK KKIKRE\EVERLVKEVPEEYSER FSPQARSLCSQLLCKDPAERLG CRGGSAREVKEHPLFKKLNFKR LGAGMLEPPF\KPDPQAIYCKD VLDIEQFSTVKGVELEPTDQTF YQKFAT\GSVPIPGKNEQMVET ECFQELNVFGLDGSVPPDLDW KGQPPAPPKKGLLQRLFSSPKD CCGN\CSDSEEELPYPPLAPSPRP
22165	52533	A	22293	102	403	
22166	52534	A	22294	1086	1436	
22167	52535	A	22295	965	1231	
22168	52536	A	22296	1434	2215	TPSFSLRTGVNKEHWVLLGFST EDGRW\MFTRGGE\DCTARIWD LRSRNLQCQRIFQV\NAPINCVC LHPN\QAELIVGDQSGAIHIWDL KTDHNEQLIPEPEVSITSAHIDP DASLHGQLFNSTGNCYVWD\LT GG\IGDEVTQFIPKTKIPAHTRY ALQCRFSPDSTLLATCSA*LRR/ CKIWRTSNFSLMTEL\SIKSGNP GE\SSRG\WMWGCALIGGTPSNI VTASSNNLARLWCVKTGEIKRE YGGHQKAVVCLPFNDSVLG
22169	52537	B	22297	158	385	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22170	52538	A	22298	145	1232	LPVRAEPTRAAAMSGDEMIFDP TMSK/NMKKKKKKPFMLDEEG DTQTEETQPSETKEVEPEPTED KDLEADEEDTRKKDASDDLDD LNFFNQKKKKKK\TKKIFDIDEA \EKGVKDL\KI*SDVQEPTEPED DLDIMLGHKKKKKKNVKFPDE DEILEKDEALEDEDNKKDDGIS FSNQTGPAWAG\SERDYTYEEL LNR\VFNIMREK\NPGYWLPGG RKRKFGPWKPPQV\VRVGTKKT FFCPLLQDICKLLHRSAQSISFA FLLG*IGVPSGSIDG**PNL*SKG RF\QQKQIENVLRRYI\KEYVTC\ HTC\RSPDT\IL\QKDTRLLFPYS AETC\HS\RCFCWPVFKTGLPQA VHGQSRGTAPVPKA
22171	52539	B	22299	50	319	
22172	52540	A	22300	3	235	LLLYPLRSLPENPLRLVQQIYSF LKGSSEK*NDLPRVPLLELGVG LLPPNQYSCSRAKPCLTCGLTM SLDGAQQGFW
22173	52541	A	22301	3	2849	WAKPVARASPAAVPGRQCQIR GAWSWGEGRGQPGPAPSPAGS PATSEESLAPMAWRCPRMGRV PLAWCLALCGWACMAPKGTQ\ AEESPFVGNP\GNITGARGLTGT LRCQLQVQGEPPEVHWLRDGQ ILELADSTQTQVPLGEDEQDDW IVVSQLRITSLQLSDTGQYQCLV FLGHQTFVSQPGYVGLEGLPYF LEEPEDRTVAANTPFNLSCQAQ GPPEPVDLLWLQDAVPLATAP GHGPQRSLHVPGLNKTS
22174	52542	A	22302	3364	3899	LVFLFDDLGIVELVLPGNIVHGI MSVRPRVAAGLRVRLQPGRRW LRGPLQLGAPLGLDLLVDVPGS PRFVVGVELPLVV/EAPRPPTPP AAAQQARS*GLECPGRGAAAP REV\LHLQTAHIHGPGPRGGPR ARPGLPGLCPP*T/FSCQEAKGE RGGAHSNGGSGSKWPPPPPPS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22175	52543	A	22303	1660	4652	PNPNTCLCNHVESGPCCPSTHT YTLTDLQPLFGVRVPTRPSGRG TQAEESPFVGNPGNITGARGLT GTLRCQLQVQGEPPEVHWLRD GQILELADSTQTQVPLGEDEQD DWIVVSQLRITSLQLSDTGQYQ CLVFLGHQTFVSQPGYVGLEGL PYFLEEPEDRTVAANTPFNLSC QAQGPPEPVDLLWLQDAVPLA TAPGHGPQRSLHVPGAAVGAW EGGSRLWLRAPEAGRKRWGGE VPPVTHAGAGMLRSERD
22176	52544	A	22304	54	288	SEAGQAQPAAAVGFVWTGRRA WETGEGYYSNSLSMELQL*RQ CI*DCFFSSSWRCSVPVYFKEEK YKGNLVCLLFFK
22177	52545	B	22305	243	2641	
22178	52546	A	22306	35	204	
22179	52547	A	22307	244	424	PSLFKNIMTFYPNLHFLWCRGR LYLDVWRQ/VR*FVRNTNYQLP LVLHNLLSRFNTFDELV
22180	52548	A	22308	1	477	
22181	52549	A	22309	2	418	WYQHLLLMRASGSFQSWWKV KGEPAYHMANRP**SLISLRTK AKTGA*LFDYFVPHFIRKN*SLF TIAKAWNHPKCTSVTDWIKKM WYIYTMEYYAVTRRNKIVSFA ET*MELEVIIVSKLTQEQKTKHC MFSLTSGS
22182	52550	A	22310	30	199	
22183	52551	A	22311	547	682	LVFLTNQRLVSTHQGTW\WE*K *CQPVIPSL*FYFLRKFSVIVIW* *LLILP*HPMALKI/C/CCQAACS GHFTAGTGEITRPCSISSKVLKR LSRL*STSGS**LVFLTNQRLVS THQGTWMKLEAIILSKVTQEQK TKHHMLSLRSGS
22184	52552	A	22312	2	194	CPSMIDWLKKMWHRYTMEYY AA\IKKNEIMS\FAGTWMKLEAI ILSKLTQEQKN\KHCMFSLITGS
22185	52553	C	22313	1	1845	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22186	52554	A	22314	1	1384	MRFQDRTWQVPYPSQCSWGSS RQGYVPQARGIVLDSQEAYPSP GGTTLCMHDPDKQAPG/PVRRP APGN\PNRLVVSVALQFLTFHES GITSALRVRPLPQSV\SFQGPGC TEA*RRASICRRRVS*HSTKLDL GAVAAQQQAWVAG\PRSPQRR CHQYS*AGPAWLGLQRGRGSH RPDTSPWHWFWALAGREEQVL PPESLL/RARTPGTHLAPGPGA* TRVQSGPGSWLTWAG*GTPQVI SS/PGAGAVGAPETTAVPTVSIA PRRSVEMWPETKEHLVAVARR KWVSAQEKRLSLRGCGSEKMG VSPGETRVYFPALTS\RCRRRCG RVSEPSPTASWAPAPSLGWAYQ LAGGRLVLRVGLSAGWRAACP QGGPISWLEGGLSSGVGLSAG WRAACPQGGPISWLEGGLSSST MRQPRAPQSSLPAPAPWGAPDP LAMLAAWIEARPGVWPTQPGP WQVSWVCV
22187	52555	A	22315	11	431	RHLLAAPPPAPPAAAAAAALSH CLRSSGRLAPHTSRRLPRVVKR RVNALKNLQVKCAQIEAKFYE EVHDLERKYAVLYQPLFDKRF EIINAIYEPTEEECEWKPDEEDEI SEELKEKAKIVDEKK\DEEKEDP KGIPEFW
22188	52556	A	22316	64	467	PAAWLPILVAARQLTVQMMQN PQILAALQERLDGLVETPTGYIE SLPRVVKRRVNALKNLQVKCA QIEAKFY\EEVHDLQRKYAVLY QPLFDKRFEIINAIYEPTEEECE WKPDEEDEISEELKEKAKIEDE
22189	52557	A	22317	2	177	
22190	52558	B	22318	228	377	
22191	52559	A	22319	630	767	WRVKFKNTVKIQANF*KSRFIH LTVVPVTILSQVTLQLTMSPKT

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22192	52560	A	22320	80	1362	VTACAAPAAWLPILVADIWSSY NMADIDNKEQSELDQDLDDVE EVEEEETGEETKLKARSA*LFR MM\QNPQILA\ALQERLDG/LW VETPT\GYIESLP\RVVKRR\VNA LKNLQVKCAQKETQ\FYE\EVH DLERKYAVLYQPLFDKRFEIIN AIYEPTEEECEWKPDEEDEISEE LK\EKGQIEDEKKDEEKEDPKGI P*IW\LTVFK\NVDLLSDMVQEH DEPILKHLKDIKVKFSDAGQPM SFVLEFHFEPNE\YFTN\EVLTKT YRMRLEPEPDDSDHFSFDGQEI MGCTGCQIDWKKGKNVTLKTI RK*/RRNHKGRGT\VRTGH*NQ FPNDSFSNFFCPLLKSPESGDLD ED\AEAILAADFEIG\HFL\RERII PRSVLYFTGEAIEDDDDDYDEE GEEADEEGEEEGDEENDPDY\D PKK\DQNPAECKQQ
22193	52561	A	22321	3	425	GCGCGGAAARGSPAPGRPAAS PPDCPLWLQGCYPPPSCDALSA TEADGCD*IYPPDTSRDGPHQA SLPGESSSFPGQPNDSYLPERGS ERSRQASYATPAAETQDPDEGL PQPGPEALPGGLQVPKSAAPFC GAQHAAGQ
22194	52562	A	22322	2	285	SRFEPRVRPTGGDRPHQASPPG DSSSFPGQPNDSRLPECGSECRG QASYATPAAETQDPE*RSSPTRS *SP\PGGFQVPKSAAPFCGAQHA AGQ
22195	52563	A	22323	85	473	FTMPAVALVPKELYLSSSLKDL NKKTEVKPEKISTK/QDYVHSIL GTANIKKAIEEAERLSESLKLRY KEAEVRK*LEEKDRQKEAQQL QQKRQETGRE\DGGTLAKVSLE NVLDYQDKTQKSNGEKSEKM

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22196	52564	A	22324	1	1449	MMRAHMFVYKELKQIYKKKT HPHQKVGKGYKQTLLRGRHLR GQETYEKKLTHVYETTDFKQQ QYYFHSILGPANIKKATGETER LSESLKLRYEEVEIWKKLEEKD RQGEAQWLQQKRQETGREDGS MLAKGSLEIVLDSKDKTQKSN GEKNEKCETKEKGAITAKELYT MMMDKNISLIIMDAQRMQDYQ DSCILHSLSVPEKAISPGVTASW IEAHLPDDSIDTWKKRGNVEY MVLLDWFSSAKDLQIGTTLWH LKDALFKWEKGGYKNWFLCY SQYTTNAKVTPPPQHQNEELSIS LDFTYPSLEESIPSKPAAEMPPP PIKVDEDIELISDQISDNDQNER TGPLNISIPVESVAASKSDVSPII QPVPSIKNVPQIDHTKKLAVKL PEEHIIKSESTNHEQQSPQNEKV IPDCSTKPVVSSPTLMLTDEEKA HIHAETALLMEKNKQEKELQE RQQGKQ/K/EKLRREEHEQKAK
22197	52565	A	22325	185	2983	FIMPAVASVPKELYLSSSLKDL NKKTEVKPEKISTKSYVHSALK IFKTAEECRLDRDEERAYVLYM KYVTVYNLIKKRPDFKQQQAD CAYFLGQTVHILFQHRALLEKK YRAVGAITAKELYTMMTDKNI SLIIMDARRMQDYQDSCILHSL SVPEEAISPGVTASWIEAHLPDD SKDTWKKRGNVEYVVLLDWF SSAKDLQIGTTLRSLKDALFKW ESKTVLRNEPLVLEGGYENWL LCYPQYTTNAKVTPPPR
22198	52566	A	22326	313	3720	FIMPAVASVPKELYLSSSLKDL NKK\TEVKPEKISTKSYVHS/AP RKIFKTAEECRLDRDEERAYVL YMKYVTVYNLIKKRPDFKQQQ DYFHSILGPGNIKKAVEEAERLS ESLKLRYEEAEVRKKLEEKDRQ EEAQRLQQKRQETGREDGGTL AKGSLENVLDSKDKTQKSNGE KNEKCETKEKGAITAKELYTM MTDKNISLIIMDARRMQDYQDS CILHSLSVPEEAISPGVTASWIE AHLPDDSKDTWKKR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22199	52567	A	22327	46	562	LLQGPGFCGDSMPVEARPSAA WRGGRAPGWTPFSPPDRETWK PQ/RASQGESGQRRFGPCPRSGG RPPGPGSAAHSSRSQRWRKASR AWPAAPRKGLLPPAQAWPPTP AAGL*GFLAACKR/PPVGGRGP APAPCRPASSRCFLICDSGPPCL CSASRAAWMGSAASSRVLFIEG
22200	52568	B	22328	51	445	
22201	52569	A	22329	51	366	CQWNTQTQVCYKQDVQSITAL GSAAQCTCLSSPR*SGKFKLLFS PGLPGTLVPSTIPATSAPRA/SHR AGEAWVGEPGRALAALQNSS\P DWAGYQGLPCKPSIRAA
22202	52570	A	22330	257	916	SPSGSNLETHLRAPDLGGPCPP GPRWWA*TPQPGHPQTRPSPAA QPCPFPPQCQQLIHCPC/SPAPGT VAAPPAP\PTPASQCLLCPWTSA PVCSPAPTFPCPMAPVMAFMLP SYSFP/PGTPNLPQAFFPSQPQFP SHPTLTSEMASASQP\GSPAGPR SPDSHVLVQPPGPPHHRPWVGP PHRSFSPAAARPCSSTCCSWRK PLRVALEPWGPQGPQRQQL
22203	52571	A	22331	151	1232	GRLGDARGPQGPEAPGGEEAA RADSTRACRSCGLLLGGRRGCR PSLKNAELLELTVRRVQCVLRG RAREREQLQAEARRALRCRLHP VACTKVHTFVSTCQAIDATVA AELLNHLLESMPLREGSSFQDL LGDALAGPPRAPGRSGWPAGG APGSPIPSPPGPGDDLCSDLEEA PEAELSQA/PC*GARLGARSPGQ PDHSPNCPGVSGGLGDQCQPES CRGGARPSLGSPPLLPGVQMW WG*GPGSLPGSSLPPLMDGLQG QPLVTSPAQRPSPVS*KNF*GPC SSGSGWREGATGRRKNFVELP ALSQVSPSPAFNPRLCGLWGQR WQKLVLGTSVPGSPGLNKSLN LPLQRGDERQVH
22204	52572	A	22332	1	1524	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22205	52573	A	22333	3	8875	EDGSLLQEVGIICLARGPGCGPE TPLYSPATGLALQLQGPAAMG ALWSWWILWAGATLLW\GKSG EDWISGPTTVFSQPGLTQEASV DLKNTGREEFLTAFLQNYQLA YSKAYPRLLISSLSESPASVSILS QADNTSKKVTVRPGESVMVNI SAKAEMIGSKIFQHAVVIHSDY AISVQALNAKPDTAELTLLRPIQ ALGTEYFVLTPPGTSARNVKEF AVVAGAAGASVSVTLKGSVTF NGKFYPAGDVLRVT
22206	52574	A	22334	2	2214	ISATDGPLAPCHGLVPPAQYFQ GCLLDACQVQGHPGGLCPAVA TYVAACQAAGAQLGEWRRPDF CPLQCPAHSHYELCGDSCPVSC PSLSAPEGCESACREGCVCDAG FVLSGDTCVPVGQCGCLHDGR YYPLGEVFYPGPECERRCECGP GGHVTCQEGAACGPHEECRLE DGVQACHATGCGRCLANGGIH YITLDGRVYDLHGSCSYVLAQ VCHPKPGDEDFSIVLEKNAAGD LQRLLVTVAGQVVSLAQGQQV TVDGEAVALPVAVGRVRVTAE GRNMVLQTTKGLRLLFDGDAH LLMSIPSPFRGRLCGLCGNFNG NWSDDFVLPNGSAASSVETFG AAWRAPGSSKGCGEGCGPQGC PVCLAEETAPYESNEACGQLRN PQGPFATCQAVLSPSEYFRQCV YDLCAQKGDKAFLCRSLAAYT AACQAAGVAVKPWRTDSFCPL HCPAHSHYSICTRTCQGSCAAL SGLTGCTTRCFEGCECDDRFLL SQGVCIPVQDCGCTHNGRYLPV NSSLLTSDCSERCSCSSSSGLTC Q\AAGCP\PG\RVCEVKAEAR\N CW\ATRGL\CVLSVG\ANL\TTF DGARGATTSPGVYELSSRCPGL QNTIPWYRVVAEVQICHGKTE AVGQVHIFFQDGMVTLTPNKG VWVNGLRVDLPAEKLASVSVS RTPDGSLLVRQKAGVQVWLGA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22207	52575	A	22335	3	7639	ITCPENSHYEVCGPPCPASCPSP APLTTPAVCEGPCVEGCQCDA GFVLSADRCVPLNNGCGCWAN GTYHEAGSEFWADGTCSQWCR CGPGGGSLVCTPASCGLGEVCG LLPSGQHGCQPVSTAECQAWG DPHYVTLDGHRFDFQGTCEYL LSAPCHGPPLGAENFTVTVANE HRGSQAVSYTRSVTLQIYNHSL TLSARWPRKLQVDGVFVTLPF QLDSLLHAHLSGADVVVTTTS GLSLAFDGDSFVRLRVPAA
22208	52576	A	22336	2	224	HCYMVVQLWKPRSLRRKSDQL WSSWNQLNTSELSSFISAEMQT EAFDCGSMAGRM*GQGRYLLA ALWDSSVPLS*PQAEPWSGVGP AHLTE/LLSPSRFVSISDLLAPKD LGTESQVSMEV*KDMGRFHWE DIPP*A*VFVIFVFQIFISRTY\DA TTHFETTCDDIKNLL*R*QGRYL LAALWDSSVPLS
22209	52577	A	22337	2	206	LSSSYLDQPCYETINRIKLYSES LARYGKSPYLYPLYGLGELPQG FAR*EPVFKTSVIQNLIFNIMCI
22210	52578	A	22338	2	457	
22211	52579	A	22339	2	1556	FVFPSEVAVGLALSPASIFLSFSS PFLRAQERLPSLLWWARSPCAF SLLGSCVRACPAMNEEYDVIV\ LGTG\LTECILSGIMSVNGKKVL HM\DRNPYYGGESASITALEDL YKRFKIPGSPPRVKWGEERDW NVDL\IPKFLKANG\QLVKMLL YTEVTRYLDFKVTEGSFVYKG GKIYKVPSTEAEALASSLMGLF EK\RRFKEFLVYVANFD\EKDPR TF\EGIDPKKTTMRDVYKKFDL GQDVIDFTGHALA\LYRTDDYL\ DQPCYETINRIKLYSESLARYG KSPYLYPLYGLGELPQGFARLR CYLWEGTYMLNKPIE\EIIVQE WGKVIGCKI*REEIARCMQLIC DPSYVKDRVEKVGQVITVICIP QPPPSKNTNDANSC\QIIIPQNQ\ VNRKSDIYVC\MISFA\HNVAAQ GKSIAIVSTTVET\KEPEKEIRPA L\ELL\EPIGTEILVSISDLL\VPKD LG\TESQIFIS\RTYDATTHFETTS D\DIKNIYKR\MTGSEFDFEEMK
22212	52580	A	22340	66	420	
22213	52581	A	22341	64	140	
22214	52582	A	22342	2	254	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22215	52583	A	22343	82	3530	HLIVAMPEPTKKEENEVPAPAP PPEEPSKEKEAGTTPAKDWTLV ETPPGEEQAKQNANSQLSILFIE KPQGGTVKVGEDITFIAKVKAE DLSEKPTI/KWF/K/GKWMDLAS KAGKHLQLKETFERHSRVYTFE MQIIKAKDNFAGNYRCEVTYK DKFDSCSFDLEVHESTGTTPNID IRSAFKRSGEGQEDAGELDFSG LLKRREVKQQEEEPQVDVWEL LKNTKPSEYEKIAFQY/GITDL\R GMLKRLKRSI
22216	52584	A	22344	66	358	TWVRGNPKPKITWMKNKVAIV DDPRYRMFSNQGVCTLEIRKPS PYDGGTYCCKAVNDLGTVEIE CKL\EVKVIYQGVNTPGQPVFL EGQQQSLHNKDF
22217	52585	A	22345	67	3515	HLIVAMPEPTKKEENEVPAPAP PPEEPSKEKEAGTTPAKDWTLV ETPPGEEQAKQNANSQLSILFIE KPQGGTVKVGEDITFIAKVKAE DLLRKPTIKWFKGKWMDLASK AGKHLQLKETFERHSRVYTFE MQIIKAKDNFAGNYRCEVTYK DKFDSCSFDLEVHESTGTTPNID IRSAFKRSGEGQEDAGELDFSG LLKRREVKQQEEEPQVDVW\EL LKNAKPSEYEKIAFQYGITDLR GMLKRLKRMRREEK
22218	52586	A	22346	2	39	FQFCVSLFVYIQLNSDVLPE*PR HKKKPPTLSHWFLK*NLHL*N* NTKALKYRKLV*LTSQKH*QM TYPFCNYLKTN*VTTNTKVK*T EGY*TAKTQKLYPDKVVMATN KPLKTRSPK\PAKYGSPHDTAT WTGSGLGLEAS*HSA
22219	52587	A	22347	1	113	
22220	52588	C	22348	47	337	
22221	52589	A	22349	1	2292	
22222	52590	A	22350	2	441	LRHAKWFQARANGLKSCVIVIR VLRDL\VTRVPTWGPLRGWPLE LLCEKSIGTANRPMGAGEALRR VLECLASGIVMP/QHALRLAAF GQLHKVLGMDPLPSKMPKKPK NENPVDYTVQIPPSTTYAITPM KRPMEEDGEEKSPSKKK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22223	52591	A	22351	45	402	HALAALEKLFPDTPLALDANK KKRAP\VPVRGGPKFAAKPHNP GFGMGGPMHNEVPPPPNLRGR GRGGSIRGRGRGRGFGGANHG GYMNAGAGYGSYGYGGNSAT QGYK*LFHKTAYGYS
22224	52592	A	22352	243	3113	FPDTTEEVKMRPMRIFVNDDRH VMAKHSSVYPTQEELEAVQNM VSHTERALKAVSDWIDEQEKG SSEQAESDNMDVPPEDDSKEG AGEQKTEHMTRTLRG\VMR\VG LVAK\CLLLKGDL\DL\ELVLLC\ KEKPTT\ALL\DKVADNLAI\QL AAVTEDKFEILQSVDDAAIVIK\ NTKEPPLS\LTIHLTSPVVREE\M EKVLAGETLS\VNGPPGNVLDR SRIAFAAFRGSLPETQRWFQ\AR ANGLK\SCV
22225	52593	A	22353	139	245	
22226	52594	A	22354	875	2019	NPNSQMPKMTRSTKQLTNKSG QIDGCPGCRVVPTWCRLGHLSH YWAVWASILRFWEVWKYWLG NMGRKSSEFPILKLNG\RTMGD *VLPFHMYV\QPVV\HPQLYPHS VTELTGDYFKPWWDGQPSLQQ VL\ERVDEWM\AKEGLL\DPNV QVQFLFTLWEDWGLKKSVLPG\ QCQ*LGAWPVGGFTSKQWD*S *KKAYSF\AMGCWPKNGLLDM NKGLSLQHIGRPHSGIDDCKNI ANIMKTLAYGGFIFKQTSKPVLI GRGQDGAGQGSLVGPPQNPPL PHQRGKRESGHKLCCPKVVPSA SLWGSMPLGRGLCCPLQGALA TWPFLEARHFCAPPSPTPQSQPS ISPSHCGPGLRGTPGTHRLLPW YNRLLWGHQDPRCAPSHP
22227	52595	A	22355	507	916	RKKNEKEGTKPPRNMGICEKT KPTFDWCT*K*RGEWNQVGKY TSGYYTGELPQSSKTGQHSNSG NTENTTKILLEKSNPKTHNW*I HQG*NEGKTVKGSQREK*GYP QREAHQTNSRSLCRNPTRQKRV GVNIKHS
22228	52596	B	22356	72	359	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22229	52597	A	22357	1236	1987	GNSSPPGLPCKSSSSPPPPPSLTG APARRAAAAPPRPASRPRPPLA\ GGGVPQLFATRPP/PGPTRARRP TWR*GPRGSPEETPRRRREWTR RPEPGCRAQGSRRPARPPSGSS AVRSASPASSPAPAASAPLGPRS RWS*RPPSRPRR/SPPPPPPGRSR SDRER/GRRKEASPPLTLAEAPA Y/RQDQAPPPGSPHLGFQSAAG PSRTASSAP/RSGIGGRGANTPA PAAIFPPSLRPPRAGPVGDLRAS GVDAAA
22230	52598	A	22358	287	2082	LKTETSEEKARRYKDRPSQLNA VFQEQKKMIQAQESITLEDVAV DFTWEEWQLLGAAQKDLYRD VMLENYSNLVAVGYQASKPDA LFKLEQGEQLWTIEDGIHSGAC SDIWKVDHVLERLQSESLVNRR KPCHEHDAFENIVHCSKSQFLL GQNHDIFDLRGKSLKSNLTLVN QSKGYEIKNSVEFTGNGDSFLH ANHERLHTAIKFPASQKLISTKS QFISPKHQKTRKLEKHHVCSEC GKAFIKKSWLTDHQVMHTGEK PHRCSLCEKAFSRKFMLTEHQR THTGEKPYECPECGKAFLKKSR LNIHQKTHTGEKPYICSECGKG FIQKGNLIVHQRIHTGEKPYICN ECGKGFIQKTCLIAHQRFHTGK TPFVCSECGKSCSQKSGLIKHQ RIHTGEKPFECSECGKAFSTKQ KLIVHQRTHTGERPYGCNECGK AFAYMSCLVKHKRIHTREKQE/ CSQGGKSSCREAQLITHQ*CHA GEKLC*RGDYTSAFCGPSDIIKH QRP/HSQNRN/CSPCGTASGQM CSLRR*QWICTGQKPCECSECG CAFRDQLCLILCYRKPIGRK\PD LCGKGLSKNL*FIMWPKSIHCE
22231	52599	C	22359	90	344	
22232	52600	A	22360	2	543	
22233	52601	A	22361	373	490	
22234	52602	A	22362	111	396	GAPPGIWCLSLWACRALSPLSS AAQHRKRPSALSPATPAGSRPL RRCAPGFAATKTQRVQRRPPRR *GAAAGAGGS*RPLCGVVIHSV LHNTPE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22235	52603	A	22363	1902	3474	VPQRSTGSGRARSARRPLRAPD PCAAAPRVSPQPRPSECSGGRR GGSKTWAKRNAGKELTDRNW DQEDEAEEVGTFSMASEEVLK NRAIKKAKR\RNVGFESDTGGA FKGFKRFGGYPSEEERFSGFG\S GAGGKPLEGL\SNGNNIT\SAPP FASAKAAADP\KVAFGK*LPSPS RLLVDKNVSNPKTNGDSQQPSS SGLASSKACVGNAYHKQLAAL DCSVRDWMVKHANTNSLCDL TPIFK\DYEK\YLANIETANTGN\ SGRNSESESNKVAAETQSPSLF GSTKLQQESTFLFHGNKTEDTP DKKMEVASEKKTDPSSLGATS ASFNFGKKVDSSVLGSLSSVPL TGFSFSPGNSSLFGKDTTQSKPV SSPFPTKPLEGQAEGDSGECKG GDEEENDEPPKVVVTEVKEED AFYSKKCKLFYKKDNEFKEKGI GTLHLKPTANQKTQLLVRADT\ NLGNILLNVLIPP\NMPCTRTGK NNVLIVCVPNPPIDEKNA\TMP\ VTMLI\RVKTSEDADELHKILLE
22236	52604	C	22364	65	283	
22237	52605	A	22365	3	419	
22238	52606	A	22366	1	512	CGRPPWKTGQRSQPSCPPGSSG SGRGIP\PAAWHEGEGPEAVLQ GHRAGRGDPACRGLCCLPSQL GGPTSPTSAASRACGSRGAATL VVKVKWFYHP/CRRPSWARGS ATARMRCTSPATRMRTTCRPSP TSARSWRASSMSRWPGAASAR TGRTSTTGGHLRPHHRAPGDG
22239	52607	A	22367	1	2940	MRRRRKVAAIHAGPRPRSAAA SSEQRGRGPGAARRAGGAEAA ASGVTGGGGGGAGQHAGGLG FSAGGRAPSQRPLCGSMPARLF SKQEVDYCGLPAPPASSLRSRG HRQRIYSLNQLLQEALRTGRAR PGEGPGWLVTDKGGLGWGSSH SQAQGPDSQAAWGRAPPAHGS SPAFLQVLDVRPQSSRYLPPGT RVCAYWSQKSRCLYPGNVVRA PPPCFGRLLGVPAASSGVPSTG ASGDEDEDLDSVVVEFDDGD
22240	52608	B	22368	215	356	
22241	52609	A	22369	282	499	YLLHCLPSDPPSFTNSPDGRGRR RRRQRRRRSDPPGRGRTKSSTR VPGSNRFV*FHQR*GRLKEWM ANQDTN

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22242	52610	A	22370	105	619	ACQASSHSGPVWGPGERTTPG A*ASARREPSRNQHPNLWVTE Q/I*IASPRTVANPLVPARTPTGP RTNKPKHLIKQGRGQPRQPLSG STGGAGESPASGCAGGQPAHR VWIAPAARGCGQHTPWKAPAG NGQSPRPASATRMIGPSPSLSPP APPAVVGVAALGSRNRCIL
22243	52611	A	22371	1	441	
22244	52612	A	22372	10	621	LRQLERGLAKGQPSTPVDRPLG PDPSAPGTLAGAALPPLEPPAPC LCQDPQEDSVEDEEPPGSLGLP PPQAGVQPAAAAVSGTTQPLG TGPRVSLSPHSPLLSPKVASMD AKDLALQILPPCQVPPPSGPQSP AGPQGLSAPEQQEDEDSLEEDS PRALGSGQHSDSHGESSAELDE QDILAPQTVQCPAQAPAGGSEE T*LRQLERGLAKGQPSTPVDRP LGPDPSAPGTLAGAALPPLEPP APCLCQDPQEDSVEDEEPPGSL GLPPPQAGVQPAAAAVSGTTQP LGTGPRVSLSPHSPLLSPKVAS MDAKDLALQILPPCQVPPPSGP QSPAGPQGLSAPEQQEDEDSLE EDSPRALGSGQHSDSHGESSAE LDEQDILAPQTVQCPAQAPAGG SEETIAKA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22245	52613	A	22373	1	2271	MPGELLAPSCCCRGGPTRDRTD LSCDAAAATTILGGDRREPCAL TPGPSHLALTFLPSKPGARPQPE GASWDAGPG\LSTEAPLPATLE PRIVMGEETCQALLSPRAARTA LRDQEGWGL/SPQGSMVDEREL HPAGTPEPPSSESSLSADSSSSW GQEGHFFDLDFLANDPMIPAAL LPFQGSLIFQVEAVEVTPLSPEE EEEEAVADPDPDSASYAEADDE RLYSGEPHAQATLLQDSVQKTE EESGGLRYDTASAPTRHRSLVS PKACSCSHDCAP\AG*RGPHLTP GLRYDTASAPTRHRSLISPKAC GCSHDCVPAG*RGPHLTPGLRY DTASAPTRHRSLVSPKACSCSH ACVPAG*RGPHLTPGLRYDSTS ASARHRPHLRSRASGCGHPSNL AGRSRLCPRDRACGHHGSAGS/ SAWTGSMSGSA\RHR*WG*A*L TPKGDPGG*EPAGRRPEG\TGT GTWTQPQGGLHGCQRPGLADL AALPSASSLWAPEPSWPS/SALS PRAARG*GQPGGRLASGPGLGP AFG*PRGVISRAGRAGHLGSSD RAVSSPGAQSREEGPSRRQ*GD HRQSQAESQ*EEGPKGNVKAG LAADSGSHQDHHPEVQEHPLC HRQA*CLQGDPASAHLCG\FWR GQ\T*GP\CPASAQSRS*EV*GAL R\DLSLGP*VST\QGPG*A*VQG KGKG\GGGKGGPGGAGTA*HL
22246	52614	A	22374	2	211	
22247	52615	A	22375	43	241	
22248	52616	A	22376	184	332	
22249	52617	A	22377	1292	1923	KAGARGNQEGTMASSSG\TQK VLTIPRGCYQ*K*SKETLP*CSG WPNDAR\EAVVNC\CTEFI\HLIS SEANEICNKSEKKTISPEHVIQA LESLGFGSYISEVKEVLQECKT VALK\RRKASSRFGKPLGIPEEE\ LFGDQANKELFGKSLDQQQAE\ LAQQ\EW\LQMQQAA\HQA\QL AAASAKCI*SRRGSFSGMEEDG GWISEIPPAEFLFLL
22250	52618	B	22378	1	1701	
22251	52619	A	22379	1	147	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22252	52620	A	22380	1	484	IRHEGRGQRGKMELVQ\VLKRG LQQITGHGG/LFRGYLRVFF\RT NDAKVGTLVGEDKYGNKYYE DNKQFFGRHRWVVYTTEMNG KNTFWDVDGSMVPPEWHRWL HSMTDDPPTTKPLTA\RKFHLG RNH*ISTWTGAPQEQYVPYSTT RK\KIQEWIPPSTPYK
22253	52621	A	22381	3	258	DMAAQIAEGMAFIEERNYIHRD LRAANILVSDTLSCKIADFGLA RLIED\FTIKSDVWSFGILLTEIV THGRIPYPGMTNPEVIQN
22254	52622	A	22382	1	738	
22255	52623	A	22383	233	1898	GAGPTGYLRRLPGWAGTMGC GCSSHPEDDWMENIDVCENCH YPIVPLDGKGTLLIRNGSEVRDP LVTYEGSNPPASPLQDNLVI\AL HSYEPSHDGDLGFEKGEQLRIL EQSV\EWWKAQSLTTGQEGFIP FNFVAKANSLEPEPWFFKNLSR KDAERQLLAPGNTHGSFLIRES ESTAGSFSLSVRDFDQNQGEVV KHYKIRNLDNGGFYISPRITFPG LHELASAITPIASDGLCTR\LSRP CQTQKPQKPQKPWWEDEWEV PRETLKLVERLGAGQFG\RCGW GTTTGTTKVAVKSLKQGSMSA GRLP\AEANLMKQLQ\HQRL\VR LYAVVT\QEPIYIITEYMENGSL VDFLKTPSGIKLTINKLLDMAA QIAEGMAFIEERNYIHRDLRAA NILVSDTLSCKIADFGLARLIED NEYTAREGAKFPIKWTAPEAI*S RGNSPPRSDVWSF\GDLLPEIFT\ HGRIP/YPQGIPNPELIQKLERGY RMVRP\SNCPEKLYQL\MRLCW KERPED\RPTFDYLRSVLEDFFK RHRRASNQPQALREPLRKPLCF
22256	52624	A	22384	3	203	
22257	52625	A	22385	2	467	
22258	52626	A	22386	1	468	
22259	52627	A	22387	1	645	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22260	52628	A	22388	821	2637	AAASAWRATHSTTAAGRRTAL FRSPEPGNTRDTRRRRRATAPD CCRPATSPRALDWTSLHTRRHP VQNYLQWSYWQVLVSRWIAF AGLAMADYLISGGTGYVPEDG LTAQQLFASADDLTYNDFLILP GFIDFIADEVDLTSALTRKITLK TPLISSPMDTVTEADMAIAMAL MGGIGFIHHNCTPEFQANEVRK VKNFEQGFITDPVVLSPSHTVG\ DVLEGKMRHGFSG\IPITETGTM GSKLVGIVTSRDIDFLAEKDHT TLLSEVMTPRIELVVAPAGVTL KEANEILQRSKKGKLPIVNDCD ELVAIIARTDLKKSRDYPLASK DSQPQLLCGAAVDTREEDKYR LDLLTQAGVDVIVLDSSQGNSV YQY\ARVLYFKQKYPHLQV\LG GNVVTAAQAKNLIDAGVDGLR VGMGCGSICITQ\EVMACGRPQ GTCCVTR*AEYARRFGVPIIAD GGIQTVGHVVKALALGASTVM MGSLLAATTEAPGEYFFSDGVR LKKYRGMGSLDAMEKSSSSQK RYFSEGDKVKIAQGVSGSIQDK GSIQKFVPYLIAGIQHGCQDIGA RSLSVLRSMMYSGELKFEKRT MSPQIEGGVHGLHSYEKRLY
22261	52629	A	22389	2	332	
22262	52630	A	22390	3	608	MTAVHAGHLNLKWDPKSLEIR TLAAERLVTQVTTLVNTNSKGP SDKKRGHSKKVHVLAASVEQA AENFLEKEDKIVKESQF\L*E*LL AAVEYVRKQ/GKECLRPSLEEH LEGIISGAALMGDSSCKHDDHR ERIAAECNTVLQ\ACRTCF/SEY MGNAGCKERSNSLNSAIDKMT KKTRDLRRQLHKAVMDHVSDS FLETNVPLL
22263	52631	A	22391	2	2864	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22264	52632	A	22392	14	2897	PDWRETKQRPSASGLWNLALA QLAAEMTAVHAGHLNLKWDP KSLEIRT\LAVERLLEPLVTQVT TLVNTNSKGPSDKKRGHSKKV HVLAASVEQAAENFLEKEDKIV KESQF\L*E*LLAAVEDVRKQG DLMKAAARRRSHDDPCSSVEQ GNMVQAA*TLLSAVTCLLILA\ DMGNVYKLLVQLKVVEDGILK LRNAGNEQDLGIQYKALKPEV DKLNIMAAKRQQELKDVGHRD QMAAARGILQKNVPILYTAS
22265	52633	A	22393	1	1584	
22266	52634	A	22394	1	3519	
22267	52635	A	22395	3	673	
22268	52636	A	22396	1	1574	DVPRDLEVVAATPTSLLISWDA PAVTVRYYRITYGETGGNSPVQ EFTVPGSKSTATISGLKPGVDYT ITVYAVTGRGDSPASSKPISINY RTEIDKPSQMQVTDVQDNSISV KWLPSSSPVTGYRVTTTPKNGP GPTKTKTAGPDQTEMTIEGLQP TVEYVVSVYAQ\NPSGESQPLV Q\VAVPTIPAPTDLKFTQVTPTS LSAQWALPNVQLTGYRVRVTP KERTGPMKEINLAPDSSSVVVS GLMVATKYEVSVYALKDTLTS GPAQGVVTTLENVSPPRRARVT DATETTITISWRTKTETITGFQV DAVPANGQT\PIQRTIKPDVRSY TITGLQPGTDYKIYLYTLNDNA RSSPVVIDASTAIDAPSNLRFLA TTPNSLLVSWQPPRARITGYIIK YEKPGSPPREVVPRPRPGVTEA TITGLEPGTEYTIYVIALKNNQK SEPLIGRKKTVQKTPFVTHPGY DTGNGIQLPGTSGQQPSVGQQ MIFEEHGFRRTTPPTTATPIRHR PRPYPPNVGQEALS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22269	52637	A	22397	3	2382	QTEMTIEGLQPTVEYVVSVYAQ NPSGESQPLVQTAVTNIDRPKG LAFTDVDVDSIKIAWESPQGQV SRYRVTYSSPEDGIHELFPAPDG EEDTAELQGLRPGSEYTVSVVA LHDDMESQPLIGTQSTAIPAPTD LKFTQVTPTSLSAQWTPPNVQL TGYRVRVTPKEKTGPMKEINLA PDSSSVVVSGLMVATKYEVSV YALKDTLTSRPAQGVVTTLEN VSPPRRARVTDATETTITISWRT KTETITGFQVDAVPANGQTPIQ RTIKPDVRSYTITGLQPGTDYKI YLYTLNDNARSSPVVIDASTAI DAPSNLRFLATTPNSLLVSWQP PRARITGYIIKYEKPGSPPREVV PRPRPGVTEATITGLEPGTEYTI YVIALKNNQKSEPLIGRKKTDE LPQLVTLPHPNLHGPEILDVPST VQKTPFVTHPGYDTGNGIQLPG TSGQQPSVGQQMIFEEHGFRRT TPPTTATPIRHRPRPYPPNVGEEI QIGHIPREDVDYHLYPHGPGLN PNASTGQEALSQTTISWAPFQD TSEYIISCHPVGTDEEPLQFRVP GTS\TSATLTGLTRGATYNIIVE ALKDQQRHKVREEVVTVGNSV NEGLNQPTDDSCFDPYTVSHYA VGDEWERMSESGFKLLCQCLG FGSGHFRCDSSRWCHDNGVNY KIGEKWDRQGENGQMMSCTCL GNGKGEFKCDPHEATCYDDGK
22270	52638	A	22398	48	7500	GATMACCAAQGEERVTPCASG KRGPAATTSLVLWIPSVPPPVPF PTLWPPPSWRRQPPGGIRRDFS RRLRREANLVATCLPVRASLPH RLNMLKGPGPGLLLLAVLCLG TAVPSTGASKSKRQAQQMVQP QSPVAVSQSKPGCYDNGKHYQ INQQWERTYLGNVLVCTCYGG SRGFNCESKPEAEETCFDKYTG NTYRVGDTYERPKDSMIWDCT CIGAGRGRISCTIANRCHEGGQS YKIGDTWRRPHETGGYM
22271	52639	A	22399	1	403	NSTNKRRGFCFITFKE\EMEKKY HNVGLSKCEIKVAMSKEQYQQ QQQWGSRGGFAGRARGRGGG PSQNWNQGYSNYWNQGYGNY GYNSQGYGGYGGYDYTGYNN YYGYGDYSNQQSGYGKVSRRG GHQNSYKPY

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22272	52640	C	22400	36	214	
22273	52641	A	22401	3	182	
22274	52642	A	22402	223	452	LESMTIFPYSDDKRAQYIFIQKD LLKKPVRHYYIMTLSHWAFNT RLALQYWGKGHKTQIDSEA*Q LRNKTMKANFF
22275	52643	A	22403	1	1037	MSEEQFGGDGAAAAATAAVG GSAGEQEGAMVAATQGAAAA AGSGAGTGGGTASGGTEGGSA ESEGAKIDASKNEEDEGHSNSS PRHSEAATAQREEWKMFIGGLS WDTTKKDLKDYFSKFGEVVDC TLKLDPITGRSRGFGFVLFKESE SVDKVMDQKEHKLNGKVIDPK RAKAMKTKEPVKKIFVGGLSP DTPEEKIREYFGGFGEVESIELP MDNKTNKRRGFCFITFKEEEPV KKIMEKKYHNVGLSKCELK\VA \MSKEQYQQ\Q\QQWDSRGGCA GRA\RGRGGDQAE\GYGKGIQA RWAIKNSYKPYLNYSICQPYPP TAGTSLQALCRADFRFSQARSM
22276	52644	A	22404	299	1508	HYVGGSSSGGDGAAARAT/AR AVGGSAGEQ\EGA\MVAATHG ARGGVWEADAATGGGTASGG T\EGGSAE\SEG\AKIYASKNEED EGHSNSSPRHSEAATAQRGRM\ KMVIGGLSWDT\TKKDLKDYFS KFGEVVDCTLKLDPITG\QSRGF GFV\LFKESESV\DKVMDQKEH K\LNG\KVNDPKRAKAM\KTKE PVKKIFVGGLSPDTPE\EKIREYF GGFGE\VESIELPMD\NKTN*RG RGF\CF\ITFKEEEPVKKI\MEKK YHNVGLSKCEIKVVLLNEQYQ QQQQW*SIGGFAGIALVIGGGP SQNWNQGYSNYWNQGYGNYG YSS\QGYG\GYGGYDYTGY\NN Y\YGYGDYSNQQSGYGKVS\RR GGHQ\NSYKPHTKFIPICNLFPN RWLKQYFPNLKIQFERGSCHLL
22277	52645	A	22405	3	189	EESEPERKRARTDEVL\PEEAAP RRKMRTTRTTCPVSRY\AAP\QL LLQKLLQRRRKGSCSRG
22278	52646	B	22406	1	1356	
22279	52647	C	22407	135	260	
22280	52648	A	22408	1	1740	
22281	52649	B	22409	80	371	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22282	52650	A	22410	257	1200	ISWCCMEQKKRLP\FSKREG\PY EFIICPSEDSSPLLRCAFCIGGMS VKEQMETIRHPLQTTRGPGPGP LFTDGPDPIPEAFLHGLLSIREM VSTEKVKPVGQESEPRVKPLEL DDSASGGVHMMVATPGRLMD LLQKKMVSLNICRYLALDEAD RMIDMGFEGDIRTIFSYFKHTSA AAIGLQLALDGGTGSGQKGKC EEFPSSMSAVSTGLEASACCLS VTMDPLETLSRMASSTSSMSSL ARAWLSPEPGDSPGMVGGLPR ELPGMAPLECGEFQRPESLCAD RNELGSQSPEFPGQEEEDEDED DEEEDEDE
22283	52651	A	22411	107	2069	GGVSPWRACVQQRMEESEPER KRARTDEV\LPEEAAPRRKMRT TRTTCPMCRYGSAGSLLLQKLL QR\RRKGAAEEEQQDSGSEPRG DEDDIPLGPQ\SNVSLLDQHQHL \KEKAESAAKESCQGRKQLEGK KEKILGRIVCRRAE\LDVK*KAD WLKGITVLIDPIKTQLGLPPR/Y MFLSMSEERHERVRKKYHILVE GDGIPPPIKSFKEMKFPAAILRG LKKKGIHHPTPIQIQGIPTILSCR DMIGIAFTGSGKTLVFTLPVIMF CLEQEKRLPFSKREGPYGLIICP SRELARQTHGILEYYCRLLQED SSPLLRC\ALCIGGMSVK\EQ\ME TIRQGVHMMVATPG/RALMDL LQKKMVSLDICRYLALDEADR MIDMGFEGDIRTIFSYFKGQRQ TLLFSATMPKKIQNFA\KSALVK PVTINVGRAGAASLDVIQEVEY VKEEAKMVYLLECLQKTPPPV LIFAEKKADVDAIHEYLLLKGV EAVAIHGGKDQEERTKA\IEAFR EGKKDVLVAT\DVASKGLVFPA IQHVINYDMPEEIENYVHRIGRT GR\SGNTGIATTFINKACDESFLI D\LKALLVRKPKQKVPPVL\QV L\HCGGWSPMLDIGRSSRGCAF CGG\LGH\RITDCPKL\EA\MQTK QVSNIGRKDYLAHSSMDF
22284	52652	A	22412	435	1428	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22285	52653	A	22413	3	597	HKMAPYSPLVTRLQKALGVRQ YHVASVLCQRAKMAMSHFEPN EYIHYDLLEKNINIVCKRLNWP LTLLEKIVYGHLDDPASQEIEQ GK/S/YLWLWPDHVAMLQFISKI GATTSVFPYNHRMRRYLSK/TG RTDIANLADEFQDHLVPDPGCH YDQLIEINLSELKPHINGPFTPD QAHPVAEVGKVAEKEGWPLDI RVGLT
22286	52654	A	22414	29	512	
22287	52655	A	22415	1	543	
22288	52656	B	22416	271	719	
22289	52657	A	22417	1	2438	SVHKMAPYSLLVTRL*KALGV RQYHVGSVLCQRAR\VAMSHF EPNEYIHYDLLEKSINIVRKRLN RPLTLSEKIVYGHLDDPASQEIE RGKSYLRLRPDRVAMQDA\TA QMAMLQFISSGLSKVAVPSTIH CDHLIEAQVGGEE\DL\RRAKDI NQEVYNFLATAGAKYGVGFW KPGSGIIHQIILENYCVPWLSF*L GPDFHTPNGGG\LGGI\CIGSCG WPNAWEWNGLGIPWELKCPK VIGVKLTGSLSGWPSPKDVILK VAGILTVKGGTGAIVEYQGPGV DSISCTGMATICNMGAEIGATT SVFPYNHRMKKYLSKTGREDIA NLADEFKDHLVPDPGCHYDQLI EINLSELKPHINGPFTPDLAHPV AEVGKVAEKEGWPLDIR\VGL\I GSCTNFKLWKIWGRSAAVAKQ ALAHG\LKCKSQF\TITPGFPRQI\ RATFE\RDGYAQILRDLGG\IVL ANACGPCIGQWDRKDIKKGEK NTIVTSYNRNFTG\RNDANPET HAFVTSPEIVTALAIAGTLKF\N PETDYLTGHGWARSFRLGGSRI AD*VFPKGEF*PRGRDTYQHPP K\DSSGAACWDLSPTSQRLQLL EPFDKWDGKDLEDLQILIKVKG KCTTDHISAAGPWLKFRGHLD NISNNLLIGAINIENGKANSVG\ NPVTQEFGPAPD\LARYYKKHG I\RWVVIGDENYGEG\SSREHAA
22290	52658	A	22418	14	260	RLCIGDAGVSPVCGP/CSAGGGP R*LNLEGGEESSSVPRGG/CCSP VTATTAPGPCFPK*SDGSGCAE APDSGE/CS*ALGPHCGD

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22291	52659	A	22419	160	460	RLCIGDAGVSPVCGPLSAGGGP R*LNL*GGEESSSVPRGG/CCSP VTATTAPGPCFPK*SDGSGCAE APDSGNCGAFCALRSPHRHPGP KPARERLLLTGL
22292	52660	A	22420	43	418	SLGCAEQN/FPAIAIQPGMAQEE RLSRYQQFKDFQRRILVATNLF GRGMDIERVNIVFNYDMPEDS DTYLHRVARAGRFGTKGLAITF VSDENDAKILNDVQDRFEVNV AELPEEIDISTYIEQSR
22293	52661	A	22421	1	592	RFSKYMPSVKVSVFSRGLSIKK DEEVLKKNCPHVVVRTRARILA LVRNRSFSLQNVKHFVLDECD KMLEQLDMRRDVQEIFRLTPHE KQCMMF/ERLSRYQQFKDFQRR ILVATNLFGRGMDIERVNIVFN YDMPEDSDTYLHRVARAGRFG TKGLAITFVSDENDAKILNDVQ DRFEVNVAELPEEIDISTYIEQS
22294	52662	A	22422	2	575	
22295	52663	B	22423	100	412	
22296	52664	A	22424	2	441	
22297	52665	A	22425	682	1032	
22298	52666	A	22426	1	1324	MAEQDVENDLLDYDEEEEPQA PQESTPAPPKKDIKGSYVSIHSS GFRDFLLKPELLRAIVDCGFEHP SEVQHECIPQAILGMDVLCQAK SGMGKTAVFVLATLQQIEPVN GQSGQVHIFGLHIGARALVISEH ILKDEGAVEGCGVVQCLMARV TVLVMCHTRELAFQISKEYERF SKYMPSVKVSVFFGGLSIKKDE EVLKKNCPHVVVGTPGRILALV RNRSFSLKNVKHFVLDECDKM LEQLDMRR\DVQEIFRLDTTPR KQCMMFSATL\SKDI\RPV\CRK FMQDPMEVF\VDDETKLTLHG\ LQQYYVKLKTSEKNRSLFDLL\ DV\LEFNQV\IIFVKSVQRCMAL AQLL\VEQNFPAI\AIHRGMAQE ERLSRYQQFKDFQRRILVATNL FGRGMDIERVNIVFNYDMPEDS DTYLHRVARAGRFGTKGLAITF